POCKET DIGEST

NCR

Products and Systems

Creating value

NCR

NCR PRODUCTS AND SYSTEMS
POCKET DIGEST

NCR Corporation improves products as new technology, software, components and firmware become available. NCR reserves the right to change specifications without prior notice. In some instances, photographs are of equipment prototypes.

All features, functions and operations described in this digest may not be marketed by NCR in all parts of the world. Consult your NCR representative or NCR office for the latest information.

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NCR GENERAL PURPOSE PROCESSORS
NCR TOWER 32 FAMILY

NCR's open systems architecture strategy affords NCR Tower 32 Family users outstanding performance and flexibility. Designed to accommodate a wide selection of peripherals and software, the NCR Tower 32 Family makes use of widely recognized standards and protocols including 32-bit 68020 microprocessors, Multibus®, SCSI peripheral interfaces, and an NCR-enhanced operating system based on UNIX® System V. Additionally, the system supports a wide array of industry-standard communications, software languages, productivity tools and applications.

Object code compatibility among the NCR Tower 32 Family members is a standard feature. Additionally, power failure recovery is standard on all systems, with the exception of the NCR Tower 825 and 850 models.

NCR TOWER 32/200
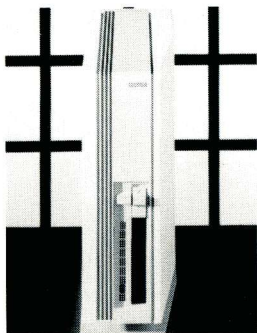
NCR's Tower 32/200 is the entry-level member of the NCR Tower 32 Family of UNIX-based business computers. The NCR Tower 32/200 provides for system growth since any application developed for the NCR Tower 32/200 is also supported on larger NCR Tower 32 Family members. The NCR Tower 32/200 exhibits an attractive, slimline appearance like its larger family counterparts. The NCR Tower 32/200 software and hardware are fully configurable for cost effectively meeting the requirements of small business/small department environments.

Some basic features:
- Uses 32-bit Motorola 68020 CPU (16.7 MHz)
- Supports up to 8 MB memory
- Connects up to 4 users
- Supports up to 126 MB integrated disk storage

Some optional features:
- External SCSI disk/tape subsystem attachment
- 32 KB of cache memory
- Motorola 68881 math coprocessor

NCR TOWER 32/300
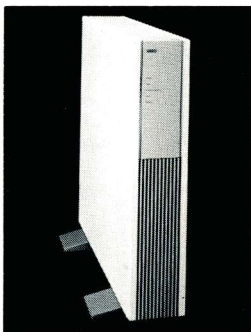
The NCR Tower 32/300 offers a powerful 20 MHz microprocessor in its slimline cabinet. It offers you an outstanding price/performance combination applicable for your particular business environment.

Some basic features:

- 20 MHz MC68030 CPU with 16 KB copy-back cache and battery backup
- 4 MB memory
- 126 MB integrated Winchester disk
- 150 cartridge tape drive
- 8 RS-232-C ports and 1 parallel printer port
- Connects up to 16 users

NCR TOWER 32/450
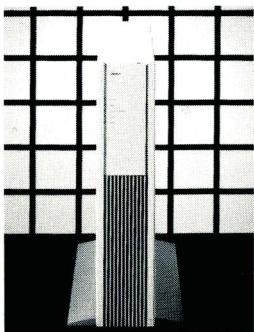
The NCR Tower 32/400 is designed for the 2 to 32-user system marketplace. The NCR Tower 32/450 combines hardware and software technology for product leadership. In its slimline cabinet, it incorporates industry-standard components like UNIX-based operating system, Multibus, integrated Winchester disk, SCSI and Ethernet.

Some basic features:

- 25 MHz MC68020 CPU with 32 KB cache and battery backup
- 4 MB ECC memory
- 170 MB integrated Winchester disk
- 150 MB cartridge tape drive
- 16 RS-232-C ports and 2 parallel printer ports
- Connects up to 32 users
- Optional math coprocessor

NCR TOWER 32/500
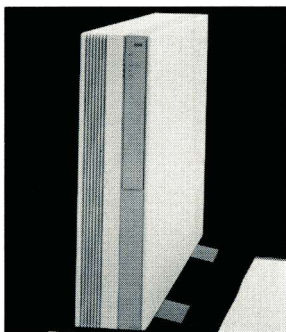
The powerful NCR Tower 32/500 is designed using a powerful 20 MHz 68030 32-bit microprocesser. The NCR Tower 32/500 supports up to 32 users and puts the future of information processing within reach today.

Some basic features:
- Uses Motorola 68030 microprocesor (20 MHz)
- Dual bus storage with Multibus I and Processor Memory Bus
- Up to 64 MB Burst-Fill physical memory
- Power fail memory support system
- 7 Multibus I slots for I/O controllers
- Up to (2) 5.25 in. half-height cartridge tape drives
- Up to (3) 5.25 in. fixed disk drives
- Optional 3.5 in. or 5.25 in. flex disk drive

NCR TOWER 32/650
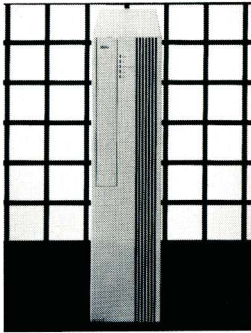
The NCR Tower 32/650 is the midrange member of the NCR Tower 32 Family. The NCR Tower 32/650 offers power fail recovery with battery backup, a memory management unit and memory error check and correction. It is designed to fit behind a desk, out of the way in any office environment.

Some basic features:

- 25 MHz MC68030 CPU with 32 KB copy-back cache and battery backup
- 8 MB ECC memory
- 380 MB integrated Winchester disk
- 150 MB cartridge tape drive
- 32 RS-232-C ports and 4 parallel printer ports
- Connects up to 64 users

NCR TOWER 32/700
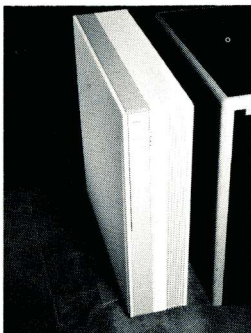
The powerful NCR Tower 32/700 puts the future of information processing within reach today. Designed using a powerful 30 MHz 68030 32-bit microprocessor, the NCR Tower 32/700 supports up to 64 users, offering you an outstanding price/performance combination.

Some basic features:

- Uses Motorola 68030 microprocessor (30 MHz)
- Dual bus structure with Multibus I and Processor Memory Bus
- Up to 64 MB Burst-Fill physical memory
- Power fail memory support system
- 7 Multibus I slots for I/O controllers
- Up to (2) 5.25 in. half-height cartridge tape drives
- Up to (3) 5.25 in. fixed disk drives
- Optional 3.5 in. or 5.25 in. flex disk drive

NCR TOWER 32/825
AND NCR TOWER 32/850
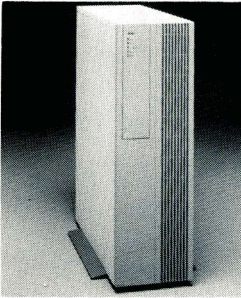
NCR Tower 32/825
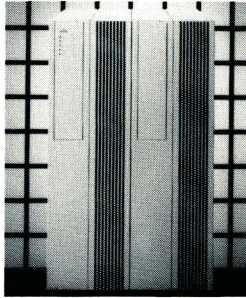
NCR Tower 32/850

The NCR Tower 32/825 and the NCR Tower 32/850, the high-end members of the NCR Tower Family of business computers, significantly extend the performance and connectivity of the NCR Tower 32 Family.

Both systems differ in respect to configurability, integrated storage and connectivity.

The NCR Tower 32/825 and NCR Tower 32/850 are based on incremental architecture for maximum processing power and investment protection.

Some 32/825 basic features:
- Uses Motorola 68020 Application Processor (30 MHz) with 40 KB of cache and Math Coprocessor
- Supports up to 128 MB of memory
- Provides 10 expansion slots
- Supports up to 760 MB of integrated disk storage
- Connects up to 256 users

Some 32/850 basic features:
- Uses Motorola 68020 Application Processor (30 MHz) with 40 KB of cache and math coprocessor
- Supports up to 256 MB of memory
- Provides 20 expansion slots
- Supports up to 1.9 GB of integrated disk storage
- Connects up to 512 users

NCR TOWER 32 FAMILY MATRIX

	NCR Tower 32/200 5"×13"×17"	NCR Tower 32/300 5"×24"×25"	NCR Tower 32/450 5"×24"×25"	NCR Tower 32/500 7"×29"×27"	NCR Tower 32/650 7"×29"×27"	NCR Tower 32/825 10"×32"×29"	NCR Tower 32/850 20"×32"×29"
PACKAGING							
PROCESSOR	MC68020	MC68030	MC68020	MC68030	MC68020	MC68020	MC68020
Clock Speed	16.67 MHz	20 MHz	25 MHz	20 MHz	25 MHz	30 MHz	30 MHz
Word Length	32/32	32/32	32/32	32/32	32/32	32/32	32/32
Cache Memory	32 KB (opt.)	16 KB (opt.) Copy-back	32 KB	16 KB Copy-back	32 KB	40 KB Per Application Processor	40 KB Per Application Processor
Math Coprocessor	MC68881 (opt.)	MC68882 (opt.)	MC68882 (opt.)	MC68882 (opt.)	MC68882 (opt.)	MC68882 with Each Application Processor	MC68882 with Each Application Processor
SYSTEM BUS	N/A	Multibus I	Multibus I	Mutibus I	Multibus I	Multibus II	Multibus II
Transfer Rate		5 MB/Sec	5 MB/Sec	5 MB/Sec	5 MB/Sec	40 MB/Sec	40 MB/Sec
Bus Slots		3	3	7	7	10	20
Bus Width (Bits)		16	16	16	16	32	32
MEMORY	1 MB-8 MB Standard	4 MB-32 MB Standard	2 MB-8 MB Standard	4 MB-64 MB Standard	4 MB-16 MB Standard	8 MB-128 MB	8 MB-384 MB
Power Fail Recovery						Optional Power Backup Unit	Optional Power Backup Unit
MASS STORAGE							
Integrated Fixed Disk	25 MB-126 MB	126 MB-380 MB	51 MB-380 MB	170 MB-1.1 GB	51 MB-760 MB	380 MB-760 MB	170 MB-1.9 GB
Integrated Flex Disk	1 MB (opt.)	1 MB (opt.)	1 MB (opt.)	1 MB (opt.)	1 MB (opt.)	1 MB (opt.)	1 MB (opt.)
External Disk (Opt.)	Up to 172 MB	Up to 3.6 GB	Up to 3.0 GB	Up to 3.6 GB	Up to 3.0 GB	Up to 19 GB	up to 19 GB
Integrated Tape	150 MB (opt.)	Up to (2) 150 MB	Up to (2) 150 MB	Up to (2) 150 MB	Up to (2) 150 MB	Up to (2) 150 MB	Up to (2) 150 MB
External Tape (Opt.)	Up to 1 45 MB Tape Drive	Up to (3) 1600/6250 bpi Tape Drives	Up to 3 1600/6250 bpi Tape Drives	Up to 3 1600/6250 bpi Tape Drives	Up to 3 1600/6250 bpi Tape Drives	Up to 3 1600/6250 bpi Tape Drives	Up to 3 1600/6250 bpi Tape Drives
MAXIMUM CONNECTIVITY	11	16	32	32	64	256	512

NCR GENERAL PURPOSE WORKSTATIONS AND SOFTWARE
NCR 4902 VDT

The NCR 4902 color Video Display Terminal is a high contrast addition to NCR's family of terminals. Designed to meet the needs and requirements of the public safety system's computer aided dispatch applications, this state-of-the-art microprocessor-based terminal comes with standard features designed to improve both system and operator productivity.

Some basic features:

- 14 in. high contrast, non-glare color display
- 25 lines by 80 columns plus status line
- Conversational and page (VP-60) modes
- 8 user/host selectable colors
- Pre-programmed function keys (8 shift 16)*
- User set-up through keyboard
- Graphic symbol capability (11 fine line symbols)

*There are 8 function keys; 8 additional function keys are created by using the shift key for a total of 16.

NCR 4920 VDT
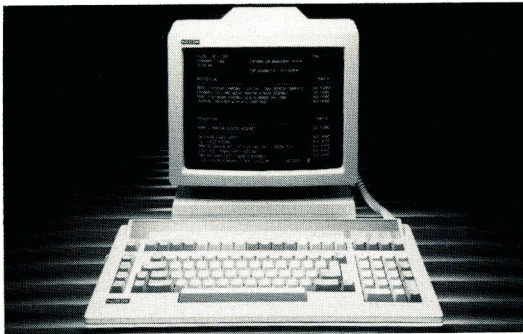
The NCR 4920 Video Display Terminal has an ergonomically designed enclosure and incorporates the latest in logic design and manufacturing technology. The standard features are designed to replace the 7930 and to improve both host system and operator productivity. From the non-glare display screen and tilt and swivel cabinet, to the low profile keyboard, the NCR 4920 has the features that compete in today's market.

Some basic features:
- 14 in. flat face display screen
- Choice of green, amber, or white screen phosphor
- Improved character resolution
- 24 rows (plus 2 status lines)
- 80/132 column display
- 70 Hz fresh rate
- Multiple video highlighting (non-embedded)
- Scroll — jump or smooth (4 speeds for smooth)
- Programmable non-volatile function keys — 12 shift 24
- Buffered RS-232 bidirectional auxiliary port (serial and parallel)

NCR 4940 VDT
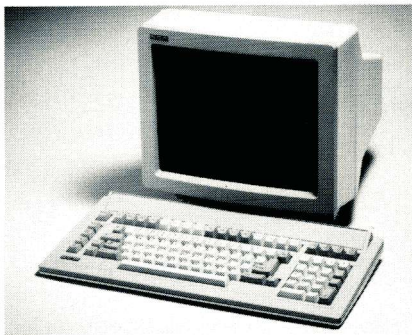
The NCR 4940 Video Display Terminal (VDT) is designed with the user in mind. The latest in logic design and contemporary enclosure allows this terminal to improve operator productivity and host system efficiency. From the non-glare display screen and tilt and swivel cabinet, to the low-profile keyboard, the NCR 4940 has the features and emulations to be competitive in today's markets.

Some basic features:
- Emulations: ADDS™ Viewpoint A1 & A2, Regent 40, Wyse WY 50, Televideo 910, 920, 925 and Hazeltine 1500
- 14 in. flat face display screen
- Choice of green, amber or white screen phosphor
- Improved character resolution
- 24 rows (plus 2 status lines)
- 80/132 column display
- 70 Hz refresh rate
- Multiple video highlighting (non-embedded)
- Scroll—jump or smooth (4 speeds for smooth)
- Programmable non-volatile function keys— 16 shift 32
- Reprogrammable editing keys (28 shift 56)
- Buffered RS-232 bidirectional auxiliary port (serial and parallel)

NCR 4970 VDT

The NCR 4970 Video Display Terminal (VDT) has been specifically designed to be DEC™ VT-220 compatible and is an ASCII/ANSI conversational terminal. The DEC emulations within the 4970 are selectable by the user during setup. As with other members of the 4900 family of VDTs, this unit incorporates all the latest in logic design and manufacturing technology.

Some basic features:

- Emulations: DEC VT 52, 100, 101, 200 and 220
- 14 in. flat face display screen
- Choice of green, amber or white screen phosphor
- Improved character resolution
- 24 rows
- 80/132 column display
- 70 Hz refresh rate
- Multiple video highlighting (non-embedded)
- Scroll—jump or smooth (4 speeds for smooth)
- 22 programmable, non-volatile function keys
- 2 private user function keys
- 4 pre-programmed function keys
- Buffered RS-232 bidirectional auxiliary port

NCR PC286

The NCR PC286 is a high-performance, small footprint computer that offers advanced 286 system performance, at an entry level price. The PC286 comes equipped with the standard features that are anything but standard. In fact, they're sold only as enhancements on most other Intel 286-based systems.

The cabinet stands just 3.3 in. tall and 15 ft. wide enabling it to fit easily where most computers can't.

Some basic features:
- Industry-standard architecture
- 20 MB or 40 MB disk drives
- 8 or 12 MHz processing speeds
- 1 MB RAM (page mode) memory on processor board
- 2 available full-size, 16-bit PC/AT-compatible expansion slots
- 2 internal half-height disk drive positions
- 3.5 in. 1.44 MB flex disk drive
- Optional video displays:
    - —14 in. color analog super VGA
    - —14 in. color analog VGA
    - —12 in. monochrome analog VGA

NCR PC386

The combination of the fast Intel 80386-25 microprocessor plus 64 KB of cache memory and support for SCSI controllers adds up to dramatic performance. The PC386's use of SCSI fixed disk controllers also results in increased speed, throughput, and productivity.

Some basic features:

- 32-bit PC/AT software-compatible microprocessor
- 4 MB of 80 ns 32-bit high performance memory on the processor board
- Up to 6 available expansion slots
- Integrated with a 3.5 in. 1.44 MB flex disk drive
  and choice of a 100 MB SCSI, 327 MB SCSI, or no fixed disk drive
- Optional integrated 60 MB multi-mode and 150 MB SCSI tape drives
- Optional video displays:
  —14 in. color analog VGA
  —12 in. monochrome analog VGA

NCR PC386sx

The NCR PC386sx is a compact desktop computer that combines 16 MHz processing speed and industry-standard architecture. The Intel 80386SX microprocessor creates an open window for computers. At the same time, the system maintains compatibility with most existing 8 and 16-bit software for computers running under MS DOS, OS/2 and UNIX. What's more, the PC386sx is remarkably cost-effective, providing 50% higher performance than 10 MHz Intel 286-based PCs with only a marginal difference in price. The PC386sx is proof that big things often come in small packages.

Some basic features:

• Industry-standard architecture
• 32/16-bit Intel 80386SX microprocessor
• 8 MHz or 16 MHz processing speeds
• 1 MB of high-speed 80 ns RAM memory
• 2 serial and 1 parallel interfaces
• Super VGA video interface
• 4 available full-size PC/AT-compatible expansion slots
• Integrated with a 3.5 in. 1.44 MB or 5.25 in. 1.2 MB flex disk drive and choice of a 40 MB, 100 MB, or no fixed disk drive
• 3 internal half-height and 1 external disk drive positions in total
• Upgradeable to 15 MB of RAM on planar board
• Optional video displays:
   —14 in. color analog super VGA
   —12 in. monochrome analog VGA

NCR PC386sx/MC
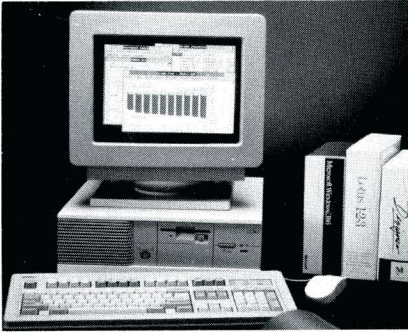
The advantages of the NCR PC386sx micro-processor and Micro Channel architecture come together in the NCR PC386sx/MC.

But these distinctive features are just the beginning. With fast companion memory, SCSI, and advanced Super VGA graphics, the NCR PC386sx/MC delivers optimal system performance.

Some basic features:

- 32/16-bit Intel 80386SX microprocessor
- Micro Channel architecture
- 1 MB or 4 MB high-speed 80 ns RAM memory
- 3.5 in. 1.44 MB flex disk drive
- Choice of a 44 MB, 100 MB or no fixed disk drive
- 3 internal 3.5 in. disk drive positions
  - 5 available full-size MCA expansion slots
  - Serial and mouse parallel parts
  - Small footprint, desktop design
- Optional 3 MB high-speed 80 ns companion memory board
- Optional 4 MB memory upgrade
- Optional integrated 80 MB tape backup drive
- Optional video displays:
  - —14 in. color analog Super VGA
  - —14 in. color analog VGA
  - —12 in. monochrome analog VGA

NCR PC810

The general purpose NCR PC810 features NCR's Incremental Workstation architecture and offers the power, speed, compatibility and expandability that business and professional computer users need. The PC810 is AT-compatible and runs at 6 or 10 MHz. It incorporates NCR's ''split-card'' architecture which isolates the processor and main memory on a single expansion card-sized board.

Some basic features:

- Keylock for system security
- Up to 6 PC AT-compatible expansion slots
- Models with integrated or 1.44 MB/3.5 in. flex disk drives and 44 MB and 70 MB fixed disk drives
- Integrated VGA graphics capability
- 16-bit PC AT-compatible microprocessor (Intel 80286); upgradable to 80386
- 6 or 10 MHz processing speeds
- PC-compatible NCR-DOS operating system
- 640 KB of memory on the processor board
- System clock/calendar with battery
- Serial/parallel interfaces integrated
- Optional PC AT-compatible XENIX® operating system
- Optional 12 in. monochrome and color display
- Optional integrated multi-mode tape drive

NCR PC920

The high-capacity NCR PC920 is designed for use as a central processor in an office work-group where it can be connected to smaller workstations in a local area network environment or a gateway to a larger host. It's also designed for use as a high-end, single-user professional processor handling multi-tasking operations requiring high performance and large storage capacity.

The PC920 includes an integrated mouse port to support a pointing device for applications such as computer-aided design, computer aided manufacturing, and sophisticated data bases.

Some basic features:
- Standard AT bus architecture
- 2 MB memory
- 20 MHz 80386-based microprocessor
- 4 or 5 available full size PC/AT-compatible expansion slots
- Integrated with a 3.5 in. 1.44 MB flex disk drive and choice of a 44 MB, 70 MB, 150 MB or no fixed disk drive
- Optional 60 MB backup tape
- Optional video displays:
  —14 in. color analog VGA
  —12 in. monochrome analog VGA

NCR PC SOFTWARE

NCR MS-DOS 3.30
NCR MS-DOS 3.30 is NCR's industry-compatible release of Microsoft DOS 3.30. NCR MS-DOS 3.30 is an upward-compatible enhancement of previous versions of NCR-DOS. The major new features include:
- Support of 1.44 MB disks
- Multiple fixed disk partitions
- 4 communications ports
- Expanded Memory Management driver
- SMART Drive (disk cache support)
- RAMDrive (virtual disk driver)

MS OS/2
The optional MS OS/2 Operating System offers processing in two modes: DOS (or real) mode and OS/2 (or protected) mode. Because of this downward compatibility, the user can run applications and programs that presently exist for the DOS 3.XX environment. The OS/2 mode offers multitasking capabilities supporting inter-application communications, and local and wide network exploitation.

NCR 386/ix
The NCR 386/ix Operating System is a UNIX®-based operating system with over 100 utilities and programs. It is the foundation for NCR's 386/UNIX-based family of software products which includes the 386/ix Development System and VP/ix. VP/ix allows DOS applications to run in a UNIX environment.

MS Windows/386

MS Windows/386 enables NCR 80386-based processors to become a multitasking virtual system. The Windows user interface is consistent with MS OS/2 Presentation Manager, including overlapping windows and enhanced keyboard and mouse controls. Multitasking allows multiple Microsoft Windows applications or multiple existing MS-DOS applications to run concurrently.

NCR PC Token-Ring System

The NCR PC Token-Ring System expands the functionality and value of local area networking for PC users. In addition to offering a high level of interoperability with the IBM Token-Ring Network, NCR's system provides high-performance software that is easy to use, and the flexibility that makes it the obvious choice for office networking. The system even provides support for diskless models, and its modular design allows easy installation, modification and growth.

Some basic features:

• Interoperability with IBM: PC Token-Ring Network using NCR PC LAN software
• Diskless personal computer boot ROM supported
• Operates in either 8 or 16-bit bus
• Supports 2 to 260 PCs on 1 LAN ring
• Connects up to 8 nodes per MAU
• Multiple MAUs per ring
• Star wired ring topology
• 4 million bits per second transfer rate
• Token passing protocol
• User diagnostics
• Finished MAU cabinet

NCR GENERAL PURPOSE SYSTEMS
SYSTEM 10000 FAMILY
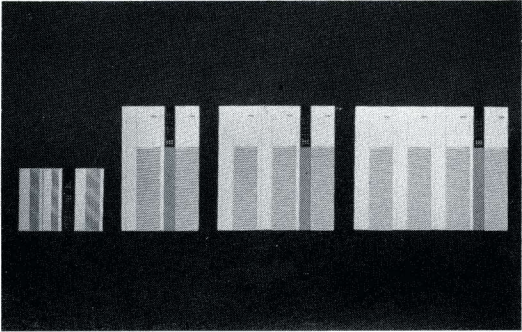
NCR System 10000 is a highly expandable family of technically advanced hardware and integrated software products supported by NCR. NCR has designed this system with the goal of helping to make the end-user, a data processing or business professional, more productive.

The NCR System 10000 is designed for today but with the future in mind. NCR System 10000 is designed with open system architecture, incremental processing, VLSI circuitry, Cooperative Processing and Surface Mount Technology. For networking, the NCR System 10000 supports many features of the major communications protocols such as SNA and OSI. NCR has built upon a foundation of third generation software with the addition of advanced development tools like ORACLE® and CorVision™ to provide an environment for productivity.

NCR System 10000 is designed to provide an integrated solution to your processing needs whether it be a single stand-alone system or a large network.

Look to the NCR System 10000 for today's solution that can grow and change while your organization grows and changes.

SYSTEM 10000
MODEL 35 AND MODEL 55
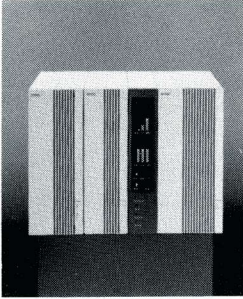
Model 35
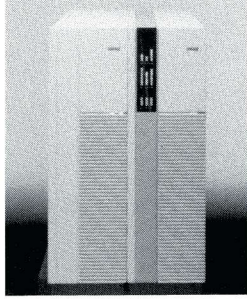
Model 55

NCR System 10000 Model 35 is designed as a satellite system for departmental and distributed processing or for system development. This compact system, with an extremely small footprint, can be placed on a desk or table. With the Model 35, computer power can be placed within each department where it is needed. Departmental processing can be enhanced by the wide range of application software and productivity tools that are available for NCR System 10000.

NCR System 10000 Model 55 is designed as the entry-level system in the NCR System 10000 line of processors, and as an effective communications network component. Incremental processing permits upgrading the Model 55 to the Model 65 and on to the Model 75, for flexible in-box growth.

The wide range of application software and productivity tools that are available for NCR System 10000 and the compatibility within the NCR System 10000 line make the Model 55 an excellent choice for use as a base system or as a building block within a network of systems.

SYSTEM 10000
MODEL 65 AND MODEL 75
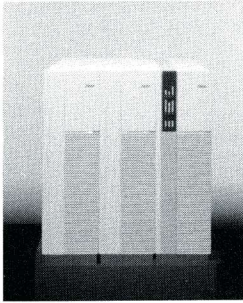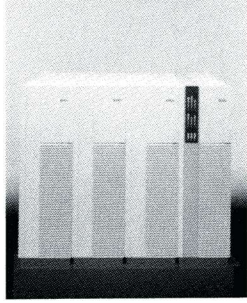
Model 65   **Model 75**

NCR System 10000 Model 65 is designed as a midsize system with large system configurability. Incremental processing architecture permits upgrading the Model 65 to a Model 75 and permits the addition of communications and I/O processors.

The wide range of application software and productivity tools that are available for the NCR System 10000 and the compatibility of the NCR System 10000 line make the Model 65 an excellent choice for use as a base system or as a building block within a network of systems.

NCR System 10000 Model 75 is designed to be the high-end processor. It is designed for a large central system environment and provides high-end migration from other I-Series systems. Model 75 can effectively serve as a major node in a large network.

The wide range of application software and productivity tools that are available and the compatibility within the NCR System 10000 line make it an excellent choice as a base system for building a network of systems.

NCR SYSTEM 10000 FAMILY MATRIX

Processors	Model 35	Model 55	Model 65	Model 75
Packaging	13.5"H × 15.5"D × 17.5"W	29"H × 26"D × 16"W	29"H × 26"D × 24"W	29"H × 26"D × 32"W

Standard Configurations	4 Cabinets
	—Processor Cabinet
	  —Multibus
	  —4 MB Memory
	—Peripheral Cabinet
	  —Cartridge Tape
	  —135 MB Disk Drive
	—Power Supply Cabinet
	—Performance Monitor Cabinet
		2 Cabinets
		—Processor Cabinet
		  —Multibus
		  —4 MB Memory
		  —Power Supply
		  —Performance Monitor
		Peripheral Cabinet
		  —Communication/
		  —Cartridge Tape
		  —135 MB Disk Drive
			3 Cabinets
			—Processor Cabinet
			  —Multibus
			  —8 MB Memory
			  —Power Supply
			  —Performance Monitor
			—Peripheral Cabinet
			  —Cartridge Tape
			  —135 MB Disk Drive
			  —300 MB Disk Drive
			—Communication Cabinet
				4 Cabinets
				—Processor Cabinet
				  —Multibus
				  —8 MB Memory
				  —Power Supply
				  —Performance Monitor
				—Base Peripheral Cabinet
				  —Cartridge Tape
				  —135 MB Disk Drive
				  —300 MB Disk Drive
				—Expansion Peripheral Cabinet
				  —(2) 300 MB Disk Drives
				—Communication Cabinet

In Box Upgrade	N/A	Model 55 to 65 to 75	Model 65 to Model 75	N/A
32-bit VLSI Technology	ATC, CPC, EAC, MPC, VAC	ATC, CPC, EAC, MPC, VAC	ATC, CPC, EAC, MPC, VAC+	ATC, CPC, EAC, MPC, VAC+ ATC, CPC, EAC, MPC, VAC+
Cycle Time	150 ns	150 ns	110 ns	110 ns
Memory —Minimum —Maximum	4 MB 4 MB	4 MB 16 MB	8 MB 24 MB	8 MB 32 MB

Incremental Processing Architecture	N/A	—Application Processor	—Application Processor —Communication Processor —I/O Processor	—Communication Processor —I/O Processor
Peripheral Interface	Multibus I —CHAMP —SCSI —RS-232-C	Multibus I —CHAMP —SCSI —RS-232-C	Multibus I —ISM/IOP —SCSI —RS-232-C	Multibus I —ISM/IOP —SCSI —RS-232-C
Line Modules	Quad TTY Dual TTY BMC—Polled Asynchronous —TTY Reverse Channel BMC—Bisync 3270 Tributary —Bisync 2780/3780 DLC In-House Primary DLC Common Carrier Primary DLC Common Carrier Second DLC Async Balanced Mode Autodial	Dual TTY BMC—Polled Asynchronous —TTY Reverse Channel BMC—Bisync 3270 Tributary —Bisync 2780/3780 DLC In-House Primary DLC Common Carrier Primary DLC Common Carrier Second DLC Async Balanced Mode Autodial	Dual TTY BMC—Polled Asynchronous —TTY Reverse Channel BMC—Bisync 3270 Tributary —Bisync 2780/3780 DLC In-House Primary DLC Common Carrier Primary DLC Common Carrier Second DLC Async Balanced Mode Autodial	Dual TTY BMC—Polled Asynchronous —TTY Reverse Channel BMC—Bisync 3270 Tributary —Bisync 2780/3780 DLC In-House Primary DLC Common Carrier Primary DLC Common Carrier Second DLC Async Balanced Mode Autodial
Communication Connectivity	Up to 16 TTY	Up to 198 TTY	Up to 760 TTY	Over 1000 TTY
Disk —Minimum —Maximum	135 MB 675 MB	135 MB 20 GB	435 MB 150 GB	1035 MB 150 GB
Relative Performance	1.0	1.0	1.8	3.6
Operating Software Release When Model Became Available	ITX 6.0	ITX 6.0	ITX 6.0	ITX 6.0
Software Distribution Media	6343 Cartridge Tape	6343 Cartridge Tape	6343 Cartridge Tape	6343 Cartridge Tape

NCR V-8800

The NCR V-8800 extends innovative 8000 Series design to the very large system environment. Performance enhancements over previous NCR V-8000 models include higher speed memories, more comprehensive firmware instruction sets, more storage capacity and a high-speed main cache memory.

These enhancements are transparent to applications. V-8800 systems adhere to the NCR migration path engineering philosophy so that applications from the smallest NCR 8000 Series systems can be transported to the V-8800 family, virtually unchanged.

NCR V-8800 SPECIFICATIONS

Characteristics	V-8835	V-8845
MEMORY		
Minimum (Bytes)	4 MB	8 MB
Maximum (Bytes)	8 MB	16 MB
Increments (Bytes)	4 MB	4 MB
Interleaving	4-way	4-way
I/O SUBSYSTEM		
Base I/O Channel Control		
Processors	2	2
Base Channels	16	16
Channel Options	24-32	24-32
(CCPs)	2-6	2-6
TRUNK CHANNEL CONTROL PROCESSOR		
Trunk Options	1 LS	1 LS
	2 LS	2 LS
	1 LS & 1 VHS	1 LS & 1 VHS
	or MCCP	or MCCP
CONFIGURATIONS		
Processors	1	2
Cache Memory	32 K	128 K
ISU	128 K	256 K
CONSOLES		
Standard	2	2
Options	Hardcopy	Hardcopy
	Output	Output

NCR 9800 SERIES
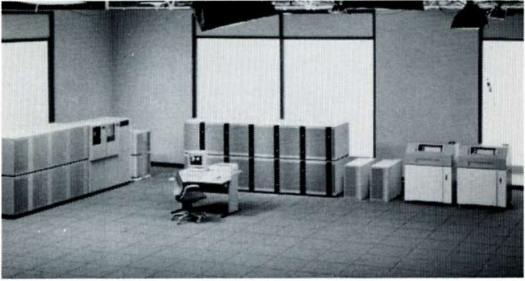
The NCR 9800 series of mainframe computers has been specifically designed to meet reliability and performance demands of On-Line Transaction Processing environments as well as provide general purpose computer functionality.

Based on state-of-the-art 32-bit VLSI technology, the NCR 9800 architecture incorporates multiple function-specific processors communicating through common system buses to offer high-aggregate computing capacity.

The NCR 9800 appears to the programmer and computer operator to have the simplicity of a single CPU environment with the added benefit of fault tolerance for some models. The 9800 can range from 3 to 16 Application Processors and Data Storage Processors providing a significant cost/performance break-through in mainframe computing.

Some basic features:
- Incremental/Open-ended architecture
- Modular to fit a wide range of power requirements
- Expandable in economical ''slices of power'' to meet users' processing requirements
- Designed to take advantage of future technology
- Unique modular expandability protects users' initial investments

- NCR V-8000 processors can be included in a 9800 configuration through the System Bus Adapter option
- UNIX®-based NCR Tower 32/650 can be included in a 9800 configuration through a System Bus Adapter

Fault Tolerant
- Service is not disrupted following a single-point hardware or software failure
- All duplicate components fully contribute to processing
- Continued system availability even during service/expansion
- Data base integrity and consistency following system failure and recovery

Advanced technology—32-bit VLSI
- Superior price/performance
- Small footprint
- Low power/environment requirements
- High reliability

Comprehensive Software Set
- MULTI-TRAN
- MULTI-TRAN Personal Computer Support
- DBSR
- DBSR SQL*Report
- DBSR SQL Server
- SQL Net/Connect
- UNION

Communications
- Industry-standard interfaces
  — X.25
  — SNA
- NCR communications processors

VRX User Base Migration
- Most V-8000 peripherals and VRX application software will migrate to the 9800
- Compatible with most VRX-based programs

NCR 3695

The NCR 3695 communications processor is a modular, programmable unit which provides versatile, high-performance communications capabilities for up to eight NCR, IBM or IBM-compatible host systems.

The NCR 3695 can be configured as either a front-end communications processor or as a remote node.

The use of high-density memory chips and a compact packaging design allow the NCR 3695 to offer a higher degree of connectivity per square foot. The NCR 3695 design also simplifies maintenance of the processor and contributes to high system availability.

The NCR 3695 provides support for NCR, SNA and X.25 networking architectures and SNA, bisynchronous, asynchronous, multi-point asynchronous and NCR DLC terminals.

NCR 5620XP
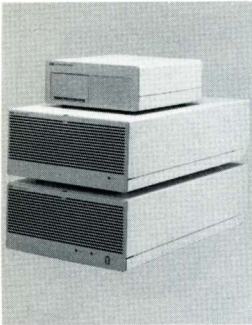
Remote
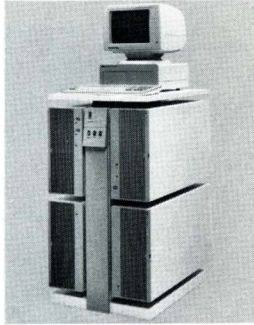
Front-end

The NCR 5620XP communications processor provides the price/performance solution for small sites by offering all the networking capabilities of NCR's larger communications processors at a substantially lower price.

The NCR 5620XP handles application switching, routing, polling, automated dialing, error recovery and multiplexing for up to 64 lines. And because of its remote load capabilities, the NCR 5620XP functions virtually unattended at remote sites.

This full function communications processor features an innovative modular architecture and incorporates VLSI technology for high reliability, low power consumption and a small footprint. Because the NCR 5620XP tolerates a broad range of temperatures and humidity levels, it is equally at home in office or computer center environments.

The NCR 5620XP can channel attach up to two NCR, IBM or IBM-compatible mainframes simultaneously. The NCR 5620XP provides support for NCR, SNA and X.25 networking architectures and SNA, bisynchronous, asynchronous, multi-point asynchronous and NCR DLC terminals.

NCR 5660
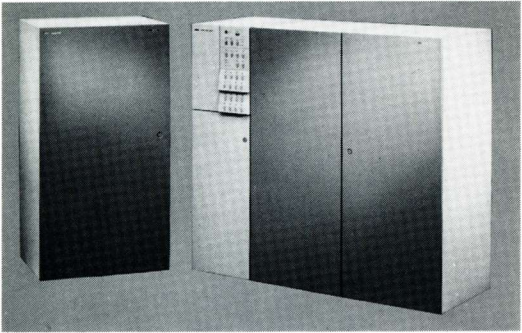
The NCR 5660 communications processor facilitates and controls the communication of information between one or more host computers and other devices in a geographically dispersed communications network. The NCR 5660 supports application switching, routing, polling, automated dialing, error recovery and multiplexing. The NCR 5660 is one of the most powerful communications processor offered by NCR and features VLSI packaging, pipelined processing and cache memory.

The NCR 5660 concurrently supports up to eight NCR, IBM or IBM-compatible mainframes and up to 1,024 communications lines. The NCR 5660 provides support for NCR, SNA and X.25 networking architectures and SNA, bisynchronous, asynchronous, multi-point asynchronous and NCR DLC terminals.

NCR DATA COLLECTION SYSTEMS
NCR 2725 TRANSACTION TERMINAL

Swipe Badge   **Stripe Reader**

The NCR Transaction Terminal has been designed to meet the increasing demand for low-cost, intelligent data collection devices. The NCR 2725 offers a variety of data input features including keyboard, bar code and magnetic badge readers, wand reader and an RS-232-C communications port.

Four models of the terminal are available. Each contains 32 KB of ROM and 32 KB of RAM and a powerful operating system which supports transaction processing.

Some basic features:
- 16-character vacuum fluorescent display
- 16-key alphanumeric keyboard
- Magnetic badge slot reader
- Bar code wand support
- RS-232-C serial port
- 2 RJ-11C modular phone jacks
- Battery backed real-time clock/calendar
- 64 KB battery protected memory
- Built-in modem for 1,200 baud Bell 212A communications
- Power module and 7 ft. telephone connector cable

NCR 2735 DATA COLLECTION TERMINAL FAMILY

The NCR 2735 Data Collection Terminal Family has been designed to provide an efficient and cost effective data collection subsystem for the factory data collection marketplace.

The 2735 terminals are connected to a PC controller on an RS-422 local area network and controlled through NCR-LOG and the 2734-5000 Controller Board. Up to 128 terminals are connected in any combination to either of the controller's two ports. Up to 128 terminals can be connected.

The terminals support input from a variety of devices. All 2735 terminals are intelligent and programmable through the download capability of NCR-LOG.

All models contain memory for storing programs, prompts and data storage. They are capable of continued operation if the controller or network is unavailable. File validation can be accomplished at the terminal and controller levels.

The 2735 Family includes:
- 2735-0100 Auxiliary Device Interface
- 2735-0200 Bar Code Terminal
- 2735-0250 Bar Code/Magnetic/Display Terminal
- 2735-0300 Bar Code/Magnetic/Keyboard/Display Terminal
- 2735-0900 Multi-function Fixed Station Terminal
- 2735-1000 Multi-function Fixed/Portable Terminal

NCR 2841 TIME AND ATTENDANCE TERMINAL

The NCR 2841 Time and Attendance Terminal eliminates manual collection of time and attendance data by performing timekeeping functions on-line to a host computer or controller.

All employee clock-in and clock-out transactions can be recorded simply and accurately.

Some basic features:
- 5 dual-mode user programmable function keys
- Full numeric keyboard
- Rugged die-cast metal cabinet
- Small footprint
- Magnetic or bar code badge reader
- Battery supported memory

NCR 2842 DATA ENTRY TERMINAL

NCR's 2842 Data Entry Terminal is a compact, rugged, and cost-effective data collection device. The NCR 2842 is applicable in many environments from the manufacturing shop floor for job reporting, to the hospital for item tracking.

Data is entered via keyboard, magnetic badge reader or bar code reading devices. The optional bar code devices, such as swipe readers, wands and hand-held scanners, can read Code 3 or 9, or interleaved 2 of 5. Operator guidance is provided with a 16-character alphanumeric display.

Data collection can be easy and economical with the 2842 the data collector from NCR.

NCR 2845 TIME AND ATTENDANCE TERMINAL

The NCR 2845 Time and Attendance Terminal is designed to automate the collection of employee ''clocking'' transactions while operating off-line from the host computer system. Transactions collected by this compact and rugged device can be transmitted to the host system at any time deemed appropriate.

An employee badge swipe reader and keyboard entry accommodate the execution of time-related transactions. The employee is prompted through transactions via the 16-character display. Additional user feedback is provided by audible tones and Accept and Reject indicator lights.

Some basic features:
- 16-character LCD display
- 20-element numeric keypad
- Accept and Reject indicators
- 16 KB RAM
- RS-232-C and RS-422 communications
- Battery backup for memory protection
- Multi-drop terminal network capability
- Optional magnetic or bar code reader
- Optional 1-hour uninterruptible power supply
- Optional bar code wand attachment

NCR 2850 MEDIA INPUT ADAPTER

The NCR 2850 Media Input Adapter provides a quick and easy method of attaching bar code and magnetic input devices to display terminals, personal computers and other types of data processing equipment. Modification of the existing hardware is unnecessary; simply connect an NCR 2850 into your equipment's keyboard line, serial communications port or even a serial communications link.

Some basic features:
- Self-tests on power up
- 2 multi-purpose reader ports
- Accept/reject LEDs
- Adjustable tone
- Auto-discrimination among selected bar codes

Two versions of the 2850 are available to satisfy your hardware requirements of your application:
- NCR 2850-0101, 4920, 4940, 4970 Display Station versions
- NCR 2850-0301 RS-232 version

NCR 3285 SUBSYSTEM
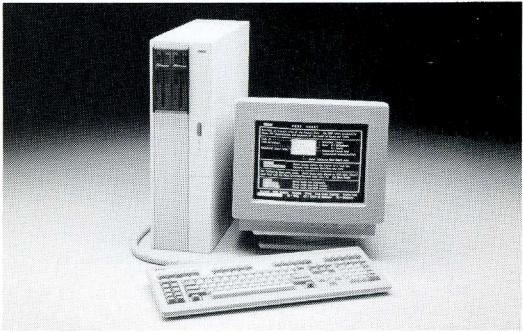
From source data collection on the manufacturing shop floor to time and attendance reporting in the retail environment, the NCR 3285 subsystem provides a state-of-the-art, cost-effective means of collecting and processing data close to the source. The primary purpose of the NCR 3285 is to control a network of 2841 Time and Attendance and/or 2842 Data Collection terminals.

In addition, the NCR 3285 can serve as a supervisory workstation for departmental processing, such as data base inquiry/maintenance and report generation. The 3285 also serves as a communications link to the host system for transfer of data as it is collected from the terminal network.

With the host of options and accessories, the 3285 Subsystem Controller can be configured to address a wide range of applications.

Some basic features:
- Time and attendance
- Labor reporting
- Work in progress
- Tool control
- Material tracking
- Inventory control
- Machine maintenance

NCR 3760 CONTROLLER
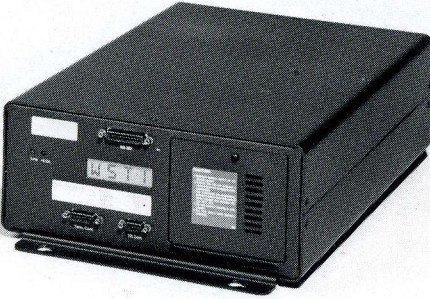
The NCR 3760, a microprocessor-based controller that supports as many as 64 RS-422 terminals, functions as the nucleus of an unusually versatile and reliable data collection network. In addition to its RS-422 interface, the controller provides an industry-standard RS-232 port allowing a wide selection on network host devices.

Since it relieves the host of many ''housekeeping'' duties, such as input processing and terminal communications, the 3760 delivers a significant improvement in throughput speed. The controller's application program is written in BASIC and is downloaded from the host. Application revisions and updates can be easily and quickly implemented via the same process.

NCR DPS 25 SOURCE DATA COLLECTION SYSTEM
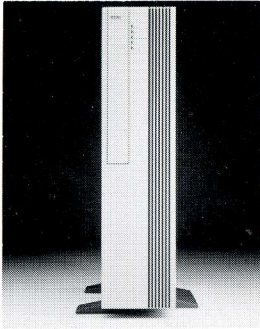
The NCR DPS 25 Source Data Collection System represents state-of-the-art technology for Source Data Management. The heart of the system is the NCR Tower processor and UNIX V operating environment. The feature-rich nature of the Tower processing system allows the DPS 25 to be configured as a stand-alone or distributed processing system.

A variety of controllers and data collection terminals may be attached to the DPS 25 system to address a wide range of application functions. Each controller and terminal subsystem is configured to address the specific requirements of the customer's application needs.

Some basic features:
- Time and attendance
- Labor reporting
- Work in progress
- Tool control
- Material tracking
- Inventory control
- Machine maintenance

NCR FINANCIAL SYSTEMS
NCR FINANCIAL TOWER SYSTEM-TMX
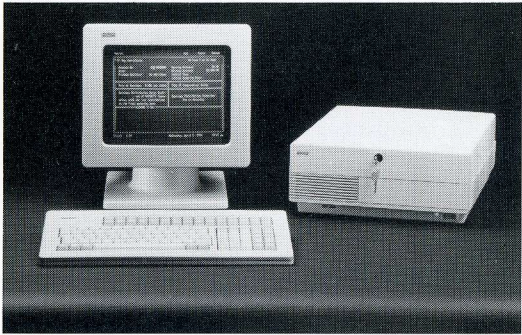
The NCR Financial Tower System-TMX combines the success of the NCR Tower Family with the PC-based financial workstation to provide a complete branch automation system for financial institutions. The system brings together teller and platform automation using NCR proprietary products, as well as industry-standard products. This provides a highly-featured, very cost-effective solution.

Some basic features:

- Network of intelligent devices
- High-speed local area network
- Financial-specific software
- Distributed processing architecture
- Network management services
- TMX operating system
- Local Branch Network
- DOS-compatible workstations
- Software distribution
- TellerDOS

NCR FINANCIAL TOWER SYSTEM-UNIX

The NCR Financial Tower System-UNIX combines the success of the NCR Tower Family of super-microcomputers with the PC-based financial workstations to provide a complete branch auto-mation system for financial institutions. The system brings together teller and platform automation with an open systems architecture—integrating industry-standard operating software, hardware and interconnections into a truly advanced product.

Some basic features:

- Network of intelligent devices
- High-speed local area network (LAN)
- Financial-specific software
- Distributed processing architecture
- Network management services
- UNIX® operating system
- Token-Ring LAN
- DOS-compatible workstations

NCR 5037 LASER PRINTER
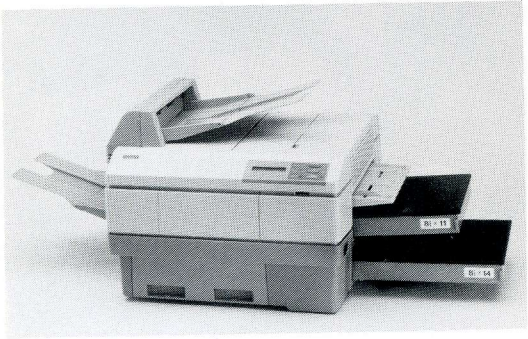
The 5037 is a non-impact, cut-sheet, desktop, general purpose laser printer. The 5037 used in conjunction with the NCR Financial Tower System Electronic Forms Software provides financial institutions with the capability of converting their preprinted forms to electronic forms.

Some basic features:
- 10 pages per minute
- 2 MB memory
- Downloading memory capability
- 300 x 300 dpi
- 2 input trays (250 sheets each)
- 2 output trays (250 sheets each)
- Envelop and transparency printing
- 9 resident fonts
- 5,000 to 10,000 pages per month work load

Some optional features:
- Legal size paper cassette tray
- Font cartridges
- RS-232 sharing device
- LAN sharing capabilities

NCR 5067-IXXX FINANCIAL WORKSTATION
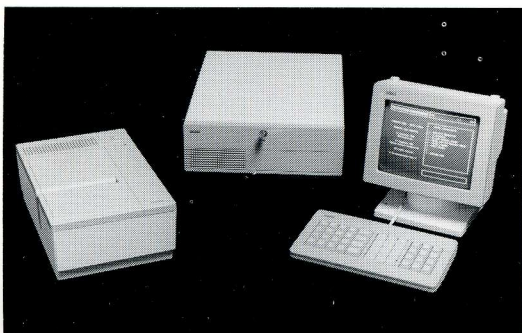
The 5067-IXXX is based on NCR's incremental workstation architecture utilizing a split-card design. The 5067-IXXX will provide automated solutions for the teller, platform and back office work areas of commercial banks and thrifts.

Some basic features:
- 8088 processor
- Monochrome or EGA adapters
- 3.5 in. flex disk drive
- Access security
- Battery-supported CMOS RAM
- Date and time clock

Some optional features:
- Upgradable to 80286 processor
- NCR TellerDOS
- NBS-DES encryption
- 3.5 in., 20 MB hard disk drive

NCR 5267 FINANCIAL WORKSTATION
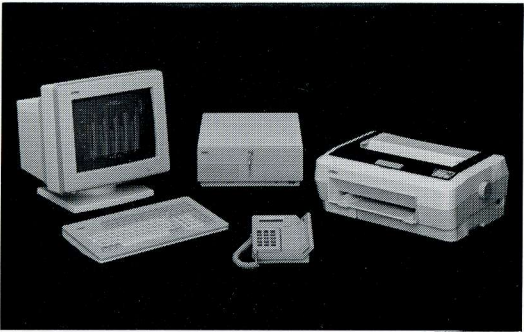
The 5267 will provide automated solutions for the teller, platform and back office work areas of commercial banks and thrifts. The 5267 is a state-of-the-art, 80286-based workstation which provides excellent throughput. This is particularly valuable when running in a platform environment.

Some basic features:
- 80286 processor
- Monochrome or EGA adapters
- 3.5 in. flex disk drive
- Access security
- Battery-supported CMOS RAM
- Date and time clock

Some optional features:
- Upgradable to 80386 processor
- NCR TellerDOS
- Extended memory
- NBS-DES encryption
- 3.5 in., 20 MB hard disk drive
- 3.5 in., 44 MB hard disk drive

NCR 5367 FINANCIAL WORKSTATION
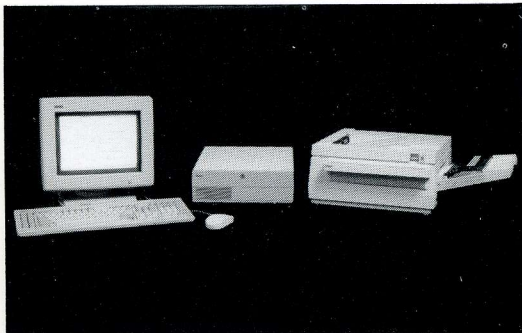
The 5367 will provide automated solutions for the teller, platform and back office work areas of commercial banks and thrifts. The 5367 is a state-of-the-art, 80386-based workstation which provides excellent throughput. This is particularly valuable when running in a platform environment.

Some basic features:
- 80386 processor
- Monochrome or EGA adapters
- 3.5 in. flex disk drive
- Access security
- Battery-supported CMOS RAM
- Date and time clock

Some optional features:
- NCR TellerDOS
- Extended memory
- NBS-DES encryption
- 3.5 in., 20 MB hard disk drive
- 3.5 in., 44 MB hard disk drive

NCR 5070 INTERIOR ATM
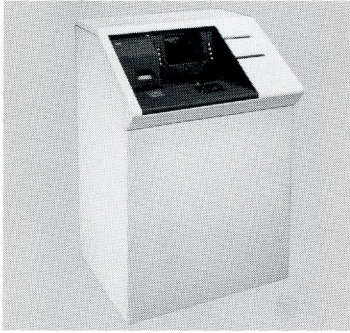
The NCR 5070 interior Automated Teller Machine (ATM) enables financial institutions to increase employee productivity, improve customer service, and control costs. The 5070 design flexibility allows placement in financial institutions or in off-premise locations such as office complexes, hospitals, retail stores and shopping centers.

Some basic features:
- Semi-secure or UL-291 safe secure
- Front or rear access
- 9 in. CRT/graphics/8-functions keys
- Card reader—Track 2
- 2-denomination currency dispenser
- Receipt printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics

Some optional features:
- Card reader—Tracks 1, 2, 3
- 4-denomination currency dispenser
- Journal printer
- Depository—serial or programmable printing
- Night depository interface
- Voice Responder™
- Validation printer
- Tamper-indicating canisters
- Network-compatible application software
- EGA color monitor

NCR 5070 SST

The 5070 Single Solution Terminal (SST) is an entry-level version of the highly-successful 5070 automated teller machine (ATM) and is designed to more economically accommodate ATM installations with low to moderate transaction volume. The modular design allows the unit to be upgraded to full functions.

Some basic features:
- Semi-secure or UL-291 safe secure
- Front or rear access
- 9 in. CRT/graphics/8-function keys
- Dip card reader
- 1-denomination currency dispenser
- Receipt printer
- Stainless steel customer keyboard
- Flex disk
- Enhanced diagnostics

Some optional features:
- 2 or 4-denomination currency dispenser
- Journal printer
- Electronic journal
- Depository—serial or programmable printing
- Night depository interface
- Voice Responder™
- Tamper-indicating canisters
- Network-compatible applications software

NCR 5081 ATM
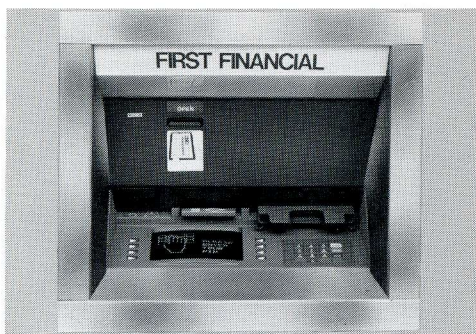
NCR's 5081 through-the-wall, full-function Automated Teller Machine (ATM) combines low unit cost and high reliability with low maintenance to make it attractive to financial institutions and retailers. Designed to coexist with other through-the-wall products, the compact sized 5081 can be a replacement for older generation ATMs.

Some basic features:
- 9 in. CRT/graphics/8-function keys
- Card reader—Track 2
- 2-denomination currency dispenser
- Receipt printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics
- UL-291/TL-15 security enclosure

Some optional features:
- Card reader—Tracks 1, 2, 3
- Journal printer
- Night depository interface
- Depository—serial or programmable printing
- Voice Responder™
- Tamper-indicating canisters
- Network-compatible applications software

53

NCR 5084 CASH DISPENSE TERMINAL
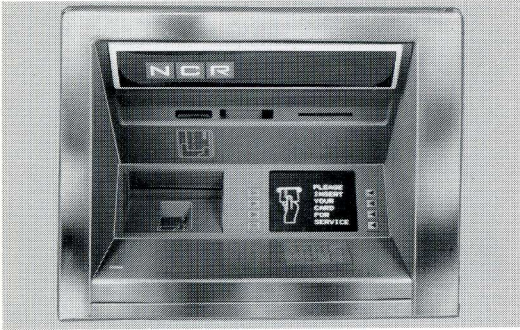
Quick, convenient cash access without frequent replenishment of service is offered by the high-volume, low-maintenance design of the NCR 5084 through-the-wall cash dispense terminal.

Some basic features:
- 9 in. CRT/graphics/8-function keys
- Card reader—Track 2
- 2-denomination currency dispenser
- Receipt printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics
- UL-291/TL-15 security enclosure

Some optional features:
- Card reader—Tracks 1, 2, 3
- 4-denomination currency dispenser
- Journal printer
- Night depository interface
- Voice Responder™
- Tamper-indicating canisters
- Network-compatible application software
- EGA color monitor
- Compatible with NCR 5285 Business Depository

NCR 5085 ATM
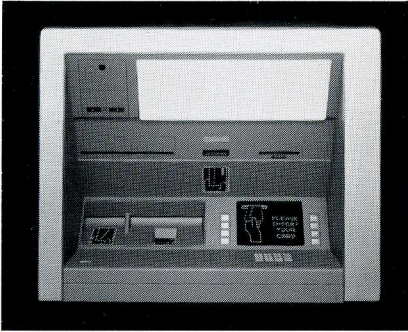
The most versatile of NCR's Self-Service Family, the NCR 5085 through-the-wall, extra function Automated Teller Machine, performs a variety of transactions and offers a wide menu of options.

Some basic features:

- 9 in. CRT/graphics/8-function keys
- Card reader—Track 2
- 2-denomination currency dispenser
- Receipt printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics
- UL-291/TL-15 security enclosure

Some optional features:

- Card reader—Tracks 1, 2, 3
- 4-denomination currency dispenser
- Journal printer
- Depository—serial or programmable printing
- Night depository interface
- Voice Responder™
- Tamper-indicating canisters
- Network-compatible application software
- Document/statement printer
- EGA color monitor
- Compatible with NCR 5285 Business Depository

NCR 5088 FIRSTLINE ATM
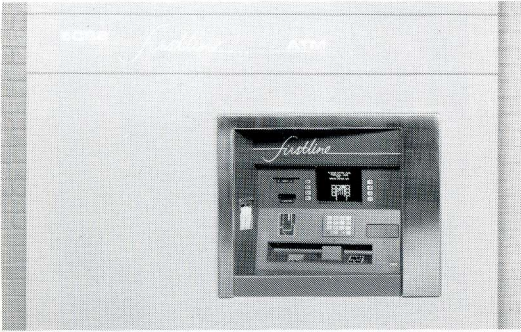
The NCR 5088 Firstline Automated Teller Machine (ATM) has been specifically designed for the drive-up customer. The NCR 5088 Firstline ATM is designed for through-the-wall placement without interfering with the teller line if installed in the branch.

Some basic features:
- 9 in. CRT/graphics/8-function keys
- Card reader—Track 2
- 2-denomination currency dispenser
- Receipt printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics
- UL-291/TL-15 security enclosure

Some optional features:
- Card reader—Tracks 1, 2, 3
- 3-denomination currency dispenser
- Journal printer
- Depository—serial or programmable printing
- Night depository interface
- Voice Responder™
- Tamper indicating canisters
- Network-compatible application software

NCR 5088 SLIMLINE ATM
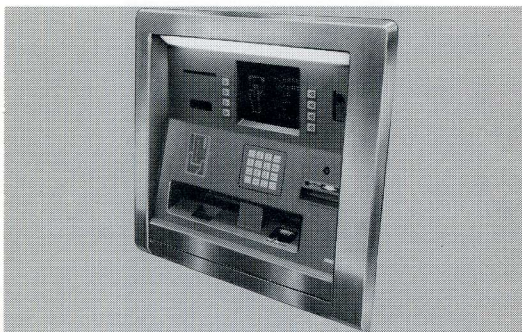
The NCR 5088 Slimline Automated Teller Machine (ATM) has been specifically designed for the drive-up customer. Superslim construction and side access allow the NCR 5088 Slimline ATM to retrofit existing pneumatic tube systems, fitting comfortably on a 36 in. or larger drive-in island.

Some basic features:
- 9 in. CRT/graphics/8-function keys
- Card reader—Track 2
- 2-denomination currency dispenser
- Receipt printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics
- UL-291/TL-15 security enclosure

Some optional features:
- Card reader—Tracks 1, 2, 3
- 3-denomination currency dispenser
- Journal printer
- Depository—serial or programmable printing
- Night depository interface
- Voice Responder™
- Tamper indicating canisters
- Network-compatible application software

NCR 5285 BUSINESS DEPOSITORY
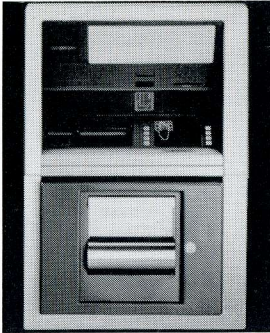
The NCR 5285 Business Depository provides a means of attracting and serving commercial business accounts through the self-service network. The NCR 5285, used in combination with an NCR Automated Teller Machine such as the 5084 or 5085 (shown above), provides customers with convenient and efficient deposit transactions.

Some basic features:
- UL-687 and UL-771 rated security enclosure
- Dial/key lock
- Deposit conveyor
- Either key or card activated

Some optional features:
- Silent sentinel alarm
- Seismic detector
- Vibration sensor
- Second combination lock

NCR 5571 SELF-SERVICE INFOR-MATION/STATEMENT TERMINAL

The NCR 5571 Self-Service Information/Statement Terminal is a freestanding lobby device that allows customers to obtain their own account statements without the assistance of branch personnel. The 5571 can also be programmed as an information terminal to provide banking service inquiries on various topics such as loans, money markets, etc.

Some basic features:
- 9 in. CRT/graphics/8-function keys
- Card reader—Track 2
- 80-column statement printer
- Customer keyboard
- Flex disk
- Enhanced diagnostics

Some optional features:
- Card reader—Tracks 1, 2, 3
- Journal printer
- Remote status monitor

NCR 5682 AUTOMATED PLATFORM MACHINE

The NCR 5682 Automated Platform Machine (APM) is the natural extension of self-service techniques to the platform. The 5682 APM provides customer information and is capable of generating and transacting sales and information services. This extension of self-service technology to the platform area frees up platform personnel and allows for more effective selling time.

Customers can present their services and project an image consistently and powerfully at all branches and off-site locations, 24 hours a day. New services can be introduced everywhere simultaneously—without the need for significant staff retraining.

Some basic features:
- 80286 processor-based platform
- VGA+ graphics
  —14 in. high-brightness, flat screen monitor
  —Infrared touchscreen
- Composer authoring system

Some optional features:
- Customization: freestanding, through-the-wall (vestibule) or kiosk
- DIP or motorized card readers
- Videodisc
- Security
- 40 or 80-column printers
- Communications interfaces

6760 NCR TOWER-CHECK SYSTEM
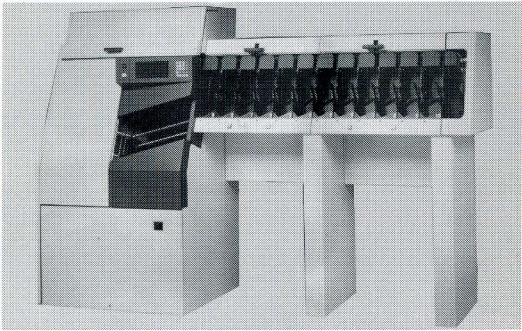
NCR 6760 NCR Tower-Check System combines a UNIX-based NCR Tower processor and intelligent 6760 reader/sorter and software to perform the complete range of sorter system functions. NCR Tower-Check's 6760 reader/sorter, processing at the rate of 1,000 documents per minute, can expand from its basic 6-pocket configuration to a maximum of 36 pockets. The reader/sorter can be enhanced by one or more optional hardware features for additional handling and control of processed documents.

Some optional features:
- OCR/MICR Compare Reader
- Positional roll-on endorser
- Ink jet printers that print from one to three alphanumeric lines of user-defined information on the back and/or front of each document
- Microfilmer unit integrated in-line to the reader/sorter
- Auxiliary plasma display panel on last pocket module

NCR 7720-3000 SYSTEM
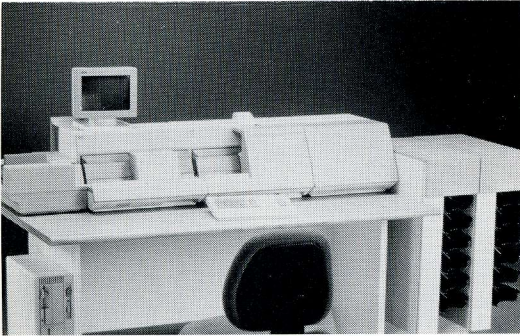
The 7720-3000 intelligent multi-pocket counter-top system provides cost-effective, on-line item processing for financial sites processing up to 5,000 document passes per day.

Using an NCR industry-standard PC controller, this system has the capability to encode, endorse, read and capture data, sort documents, receive and print information from a host.

Software packages are also available for on-line fine sort, exception item pull/cycle sort, and statement sort. Third-party software can be utilized to automate return item processing.

Some basic features:
- MICR reader
- MICR encoder
- Item processing keyboard
- NCR PC with display screen and full alphanumeric keyboard

Some optional features:
- Endorser module
- Up to 12 pockets
- Communications capability
- Line printer
- OCR reader

NCR 7766 CLUSTERED PROOF SYSTEM
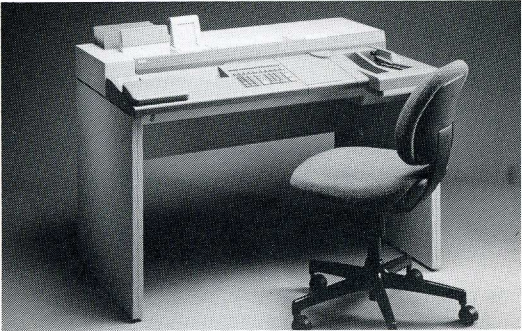
The NCR 7766 Clustered Proof System is composed of the NCR 7766 Single Pocket Proof Encoder, Ethernet communications network, and PC XT/AT compatible server. The proof encoders operate completely independent of the PC except for end-of-day or shift transmission. Up to 50 NCR 7766 proof units can be connected to a single PC.

Some basic features:

- Thermal encoder
- Endorser
- Pocket overflow tray with non-bank stamp option
- Real time clock
- Operator training cartridge option

Advanced software features:

- Built-in balancing tools
- Activity monitoring function
- Keyboard macros, three macros keys

NCR 7770-7000 ITEM
PROCESSING PRODUCT FAMILY
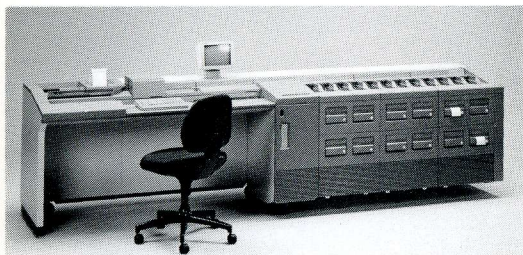
The NCR 7770-7000 Item Processing Product Family, based on NCR's 7000-3000 series of reader-based, multiple pocket item processing stations, has an improved ergomonic design. The NCR 7770-7000 is designed for high-volume document processing applications such as proof and encode, inclearings, sort, remittance processing, and returns.

The advanced features of the 7770-7000 include dual processors, code line display, optional dual-line program endorsement, cine-mode microfilming, thermal journal and lister printing, enhanced technology and superior reliability.

Some basic features:
- Larger 9 in. display screen
- 80286 PC processing technology
- Industry-standard high-density 3.5 in. diskette or optional 5.25 in. diskette
- 20 MB or optional 44 MB fixed disk
- High speed capture software
- Token-Ring networking capabilities

Four versions of the 7770-7000 Item Processing Product Family are available:
- NCR 7770-2200 MICR System (Off-line)
- NCR 7770-7101 MICR System (On-line)
- NCR 7770-7701 Remittance Processing System
- NCR 7770-7801 Remittance Processing System

NCR RETAIL SYSTEMS
NCR 1830 TERMINAL
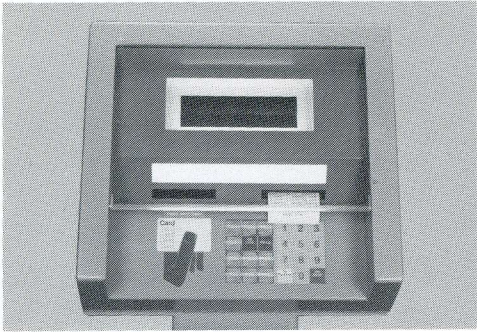
The NCR 1830 Self-Service Fuel Terminal is designed to increase throughput and customer convenience wherever petroleum products are dispersed. The 1830's flexibility allows use with an NCR 2157 Retail Terminal for attended fueling sites and an NCR PC for unattended operation. It is customer programmable and comes with a pedestal mount. Its all weather cabinet and built-in lighting make it ideal for maximum convenience at any fueling location.

Some basic features:
- 40-column receipt printer
- Programmable keyboard (24 keys)
- Programmable display (2x20 alphanumeric characters)
- Microcomputer based
- 24 KB ROM and 8 KB RAM
- In-house DLC communications
- Weather resistant
- Vandal resistant

NCR 2113 ECR

The 2113 general purpose electronic cash register (ECR) offers small retailers a low-cost, highly-reliable ECR to manage their daily business. The 2113 features a high degree of programmability and an NCR unique alphanumeric dot-matrix receipt and journal printer.

Some basic features:
- 180 NLUs with linking capability
- Period-to-date totals and counters with 5-year memory protection
- Ability to track up to 30 departments with 8-character alpha print for departments and NLUs
- 41-key programmable keyboard; 6 tender keys
- Split-package pricing
- Tax calculations, percentage analysis on reports
- Operator and supervisor security
- Tracking of up to 6 clerks by name
- Operator and customer displays
- Multi-lane validation

Some optional features:
- Wet-proof keyboard overlay
- Remote cash drawer
- Post customer display
- Battery operation
- PC interface
- 2113 point-of-sale software
- Additional NLUs (1560)

NCR 2121 ECR

The NCR 2121 electronic cash register (ECR) is a general purpose product offering small retailers a wide variety of programming options along with a sophisticated feature set. For restaurant and charge posting applications, the 2121 provides previous balance and credit balance capabilities. The 2121 contains several standard features not available on most non-NCR units.

Some basic features:
- 20-column alphanumeric dot-matrix receipt and journal printer
- 54-key keyboard
- Maximum of 40 programmable departments
- Up to 297 standard (904 optional) NLUs/sub-departments with 6-character alpha print
- 16 clerk or 2 cashier totals
- 9 tender keys, 4 discount/surcharge keys
- Single-line slip validation (optional 40-column slip printer)
- Currency conversion rates (up to 5)

Some optional features:
- 410 coin dispenser interface, personal computer interface
- ECR battery backup
- Second or remote cash drawer
- Personal computer interface
- 2121 point-of-sale software

NCR 2123 SYSTEM

The NCR 2123 System is a powerful point-of-sale terminal which offers a variety of features that enable automatic front-end transaction processing. The NCR 2123 System can be installed as a free-standing terminal or as part of a cluster configuration of master and satellite terminals.

The system can include UPC/EAN/JAN bar code scanning, in-store and high-order communications, flexible disk data collection and extensive management reports. In addition, the NCR 2123 System includes many time-saving features designed to expand throughput, security, control and accuracy of information.

Some basic features:
- Communications include PCIF, CCC, ISP
- Automatic PLU (up to 30,000)
- Data capture (PC-compatible)
- Programmable error messages
- Floating checker control
- Electronic funds transfer

Some optional features:
- Slot or hand-held scanners
- Scales
- Customer display
- Slip printer
- Coin dispenser
- Magnetic stripe reader

NCR 2126 - 5000 SYSTEM

The NCR 2126-5000 Bar/Restaurant System improves efficiency and control by increasing employee productivity, monitoring media accountability and verifying food and beverage inventory. The system can be installed as either a freestanding terminal or a cluster, consisting of a master terminal and up to five satellite terminals. A master terminal can be substituted for one of the satellite terminals providing maximum system availability.

Some basic features:
- 5 levels of present menus
- Spill-resistant micromotion keyboard
- Alphanumeric cashier/server display
- Over 1,000 departments (30 major)
- Menu item and condiment sales analysis
- Print and price modifier control; special application for controlling voids

Some optional features:
- In-house and high-order data communications
- Hotel charge post, coin dispensers and PC interface
- AFNR guest-check printer
- Employee timekeeping
- Kitchen and bar order preparation printers
- Cassette data collect capability
- On-hand inventory ingredient variance reporting

NCR 2126 - 6000 SYSTEM

Fast customer service, complete transaction control and comprehensive management reports are some of the many benefits provided by the 2126-6000 Quick Service System. The system can be installed as either a freestanding terminal or a cluster, consisting of a master terminal and up to five satellite terminals. A second master terminal can be substituted for one of the satellite terminals providing maximum system availability.

Some basic features:
- 3 levels of preset menus
- Spill-resistant micromotion keyboard
- Alphanumeric cashier display
- Menu item and condiment sales analysis
- Print and price modifier control
- Coupon redemption/gift certificate control
- Item consolidation

Some optional features:
- In-house and high-order communications
- PC, scale and coin dispenser interfaces
- Cassette data collect capability
- Store recall feature
- Drive-through and kitchen video displays; kitchen order preparation printers
- Employee timekeeping
- On-hand inventory ingredient variance reporting

NCR 2127 RETAIL SYSTEM

The NCR 2127 System is a point-of-sale, trans-action processing system for food, drug and general retail businesses. The 2127 is a distributed system, with a variety of features enabling trans-action processing and back office applications at the store level.

The NCR/ULTRA-2127 software is available to further enhance the 2127 terminal system. NCR/ULTRA-2127 provides a relational data base management system running on NCR Tower in-store processors. This enables the user to inte-grate applications into the relational data base providing an in-store application platform.

Some basic features:
- Dual consolidation terminals, automatic switchover
- Memory protection
- Dual Mass Memory Modules
- Mirror files
- On-line return to services
- Auto diagnostic at power-up
- Check verification
- Coupon validation
- Programmable report capability

NCR 2160 FOOD SERVICE SYSTEM

The NCR 2160 Food Service System consists of multiple electronic point-of-sale terminals linked to a compact, powerful in-store microprocessor. Modularity permits remote locations for kitchen order printers. Modularity also permits a choice of a receipt, sales journal or slip validation printer; customer display; cash drawer; and automatic change dispenser.

The NCR 2160 Bar/Restaurant System provides printed information in a series of detailed management reports. These reports relate to sales and inventory, guest check control, employee productivity and food and labor costs.

Some basic features:
- Automatic price lookup
- Financial accountability
- Full reporting capability
- Waterproof micromotion keyboard

Some optional features:
- Up to 4 remote printers
- Automatic form number reader

2760 FOOD SERVICE SYSTEM

The 2760 Food Service System is a new-generation system targeted to meet the information and control requirements of all food service market segments. The 2760 Food Service System blends programmable terminals with an industry-standard PC which serves as a Manager's Workstation (MWS) and provides valuable backoffice capabilities.

Some basic features:
- Data redundancy features designed to protect information in the event of a non-working terminal
- Battery backup for terminal memory
- Open system architecture designed to support a variety of off-the-shelf applications
- Security features aimed at improving control

Some optional features:
- Data capture to the hard disk of MWS
- Assembly and item preparation displays
- Computer-based training modules designed to simplify training

NCR 5682 INTERACTIVE SELF-SERVICE VIDEO SYSTEM

The NCR 5682 Interactive Self-Service Video System combines touchscreen technology with transaction processing to provide a powerful, self-service delivery system.

The 5682 allows retailers to reduce inventory, display more products in less space, and offer customers the convenience of one-stop shopping.

The 5682 utilizes a high-resolution color monitor with infrared touchscreen. It delivers attractiveness to the user through its superior video, graphics and digitized audio system.

Some basic features:
- 80286 processor-based platform
- Composer authoring system
- VGA+ graphics
- 14 in., high-brightness, flat screen monitor
- Open systems architecture
- Intelligent peripherals
- Over 20 communications protocols supported

Some optional features:
- Flexibility in design functionality
- Customized cabinetry
- Receipt/delivery system (choice of printers)
- Choice of 5 magnetic stripe card readers
- Choice of keyboards

NCR 7000CP SYSTEM

The NCR 7000CP (Continuous Processing) System offers retailers high performance and high systems availability for transaction processing. The 7000CP System serves as the platform for specific vertical applications including the 7000/Advanced Checkout System (7000/ACS) and the 7000/Mass Merchandise Retail System (7000/MMRS).

Some basic features:

- Advanced architecture based on the Motorola 680X0 family of microprocessors
- MIRLAN local area networking of system processors and terminals
- Continuous processing for high system availability with item-level backup
- On-line help facility to minimize training costs
- Comprehensive price lookup subsystem
- Programmability including user exits

Some optional features:

- 3780/3271 bisynchronous communications
- 3790/3650 SNA communications
- NCR Tower or PC MIRLAN interface
- Electronic journal and documentation
- Delayed balance
- Consumer panelist
- Tender authorization
- Check writing

NCR 7052 POS WORKSTATION SYSTEM
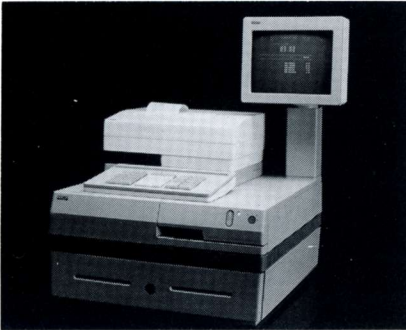
The NCR 7052 POS Workstation, a highly intelligent, easily programmable, user-friendly system, is designed to address the ever-increasing demands in the competitive retail environment. It's powerful advantage is its use of the Intel 80286 processor. This internal computing power allows fast and flexible applications to be defined. Use of the 80286 also helps assure upgradeability to the future PC hardware and system software.

Some basic features:
- Uses 80286 microprocessor/electronic module
- 1 or 5 PC-compatible card slots
- 128 KB BIOS/diagnostics ROM
- RAM battery backup
- NCR DOS operating system
- Power supply and on-off switch
- 4 position keylock
- Optional 2 x 20 with 16 descriptor customer display
- Optional 6N/6D customer display
- Optional integrated magnetic stripe reader

NCR 7052D POS WORKSTATION SYSTEM

The NCR 7052D POS Workstation is the second of a new generation of NCR retail systems designed to provide the improved functionality and level of performance required for the competitive retail environment. This new product offering combines industry-standard PC-based technology with NCR's widely accepted software application into a total systems solution for your operations.

Some basic features:

- Uses 80286 microprocessor/electronics module
- 5 PC-compatible card slots
- 10 MHz
- 3.4 in. 1.44 MB flex
- Disk controller board
- 1 DCIA port
- 1 RS-232-C port
- 1 parallel port
- 128 KB BIOS/diagnostics ROM
- 8 KB CMOS RAM
- RAM battery backup
- NCR DOS operating system
- Power supply and on-off switch
- 4 position keylock
- Optional 2 x 20 with 16 descriptor customer display
- Optional 6N/6D customer display
- Optional integrated magnetic stripe reader

NCR 7820 UPC/EAN SCANNER
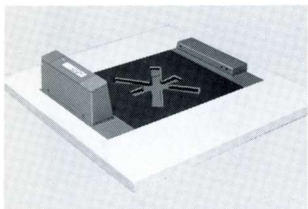
Configurable Top Deck (CTD)
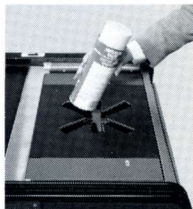
Flat Deck

The NCR 7820 UPC/EAN Scanner operates as a data entry peripheral to NCR or non-NCR retail terminals. Located at the checkout counter, it can read either UPC (Universal Product Code) or EAN (international article number) codes printed on the manufacturers' product packaging or affixed to products at the store level.

The 7820 flat-deck model has a flat scanning surface which provides the following advantages:

- Large and bulky items can be scanned
- Scanning is permitted from any direction— right-to-left, left-to-right, or even back-to-front
- Eases rescan
- Increased usable depth of field—items can be scanned further away from the scanner
- Potential increase in checker productivity

The CTD 7820 model provides housing with large red and green status indicators for good and bad scan reads. This 7820 model may optionally contain item gates which require scanned merchandise to enter and exit the scan area in a continuous single pass. This provides greater discipline in checker operations.

The NCR 7820 Scanner is a Class IIa laser product—avoid long term viewing of direct laser light.

NCR 7824 UPC/EAN SCAN-NER/SCALE
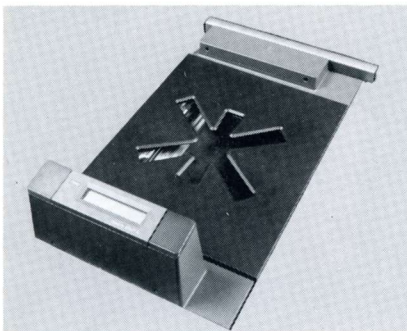
The 7824 UPC/EAN Scanner/Scale is a single point-of-sale peripheral unit which incorporates a UPC scanner, a front-end scale with a capacity of 30 points, and a digital price/weight numeric display. Designed for installation in a checkout environment, the 7824 Scanner/Scale operates as a peripheral for NCR and non-NCR retail terminals.

The 7824 Scanner/Scale has the same dimensional packing as previous NCR scanners. The top plate or working surface of the scanner serves as the front-end scale. The scale includes a loadplate, four load cells, and a scale electronics board. A flush mount slotted faceplate covers the loadplate, allowing item scanning or weighing.

The NCR 7824 Scanner is a Class IIa laser product—avoid long term viewing of direct laser light.

NCR 7852 UPC/EAN SCANNER
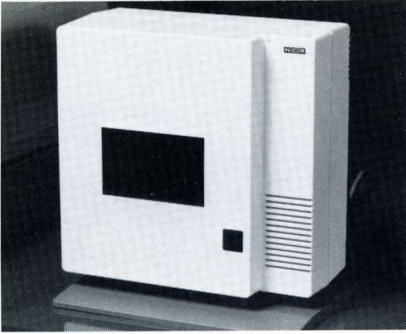
The 7852 UPC/EAN Scanner is designed to meet the special needs of retailers with low-volume transaction activity and limited point-of-sale counter space.

This small, sturdy scanning unit is capable of reading various versions of UPC, EAN, and JAN symbols.

The 7852 operates as a data entry peripheral in NCR and non-NCR retail terminals and provides the following advantages:

• The scanner can be mounted in a traditional scanner horizontal position in a checkout counter, or in a vertical position to save counter space.
• An automatic power-down feature turns off the unit when there has been no scan activity for 8 or 16 minutes. Elapsed time is selected at installation.

Specifications:

Weight: 10 lbs. (4.5 kg)
Width: 9.5 in. (24.1 cm)
Length: 11.3 in. (28.7 cm)
Height: 5.0 in. (12.7 cm)
Scan window dimensions:
Width: 3.0 in. (7.6 cm)
Length: 5.0 in. (12.7 cm)

The NCR Magnetic Stripe Reader (MSR) with optional Personal Identification Number Pad adds system features such as direct debit, check verification, electronic checking, and credit authorization to transaction processing terminals.

Advanced electronic technology makes the 4430 MSR extremely reliable. The integrity of the encryption is monitored through a system of encryption key management.

Some basic features:

- Manual swipe card reader
  - Reads ISO Track 2 or Tracks 1 and 2
- Display alternatives
  - LED lead-through indicators
  - LCD with two rows of 16 alphanumeric characters
- Keyboard alternatives
  - Cable-connected (shown above)
  - Integrated (retail checkout application)

NCR 3892/3699/6098
DISK SUBSYSTEMS
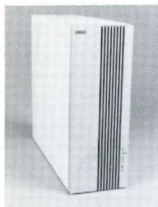
3892
(Tower 32/200)
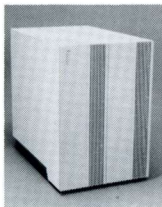
3699
(Tower 32/800)
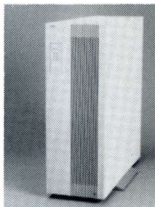
6098
(Tower 32/400)

The SCSI family of disks is available across most of NCR's Tower data processing systems. Offerings from 139.1 MB of fixed storage up to a total of 4.0 billion bytes of formatted capacity in one cabinet, the four cabinets pictured above are used not only for the specific disk but also have the necessary SCSI controller.

The 3892 supports one 144.5 MB disk with a cartridge tape option.

The mix of disk peripherals within a cabinet and their usability on specific processors is determined by the associated operating systems.

The 3699 supports the 6545, 6546 and 6570 disk models. The 6098 supports either the 6518 or 6545 disk models. The 6098 and 6545 together are supported on the NCR Tower 32/700.

Disk Performance

Characteristics	NCR 3892	NCR 6518	NCR 6545	NCR 6546	NCR 6570
Transfer Rate	9.67 MB	9.67 MB	14.52 MBs	14.52 MBs	14.52 MBs
Rotational Speed	3600 RPM	3600 RPM	3600 RPM	3600 RPM	3600 RPM
Tracks Per Surface	823	903	1215	1217	1023
User Data Capacity	144.6 MB	315 MB	304.3 MB	442.3 MB	1009.1 MB
Number of Surfaces	10	15	10	10	27
Heads Per Surface	1	1	1	1	1
Sectors Per Track	32	50	49	66	36
Max # of Usable Sectors (After initialization)	282,422	623,700	594,370	789,599	994,356
Data Bytes Per Sector	512	512	512	512	15 MS
Average Seek Time	25 MS	16.5 MS	18 MSA	15 MS	15 MS
Maximum Seek Time	50 MS	40.0 MS	35 MS	35 MS	27 MS
Avg. Latency Time	8.3 MS	8.3 MS	8.3 MS	8.3 MS	8.3 MS
Max. Latency Time	16.7 MS	16.8 MS	16.7 MS	16.8 MS	16.8 MS
Avg. Access Time	33.3 MS	24.8 MS	26.3 MS	26.3 MS	23.7 MS
Max. Access Time	66.7 MS	56.8 MS	51.7 MS	51.83 MS	43.8 MS

NCR 6091 MAGNETIC TAPE UNIT
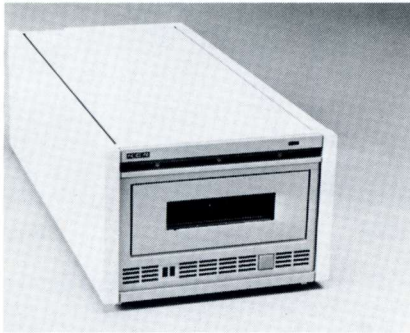
The 6091 is high capacity desktop magnetic tape subsystem for disk data background archival storage. Through the use of the 8mm Helical Scan technology, up to 2.1 GB of data storage per tape cartridge is available.

This unit interfaces to the NCR Tower 32/450/650 series processors using the SCSI standard interface.

Some basic features:

- Storage up to 2.1 GB
- Industry-standard 8mm tape cartridge
- Desktop (cabinet) design
- SCSI interface
- High-speed search
- Stackable design
- Data transfer 246 KB

NCR 6092/5496/6099
DISK SUBSYSTEM
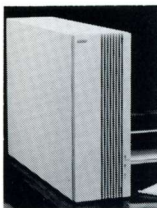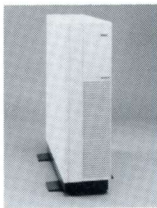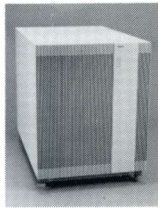
6092 **5496** **6099**

The SCSI family of disks is available across most of NCR's ITX and VRX data processing systems. Offering from 134 MB of fixed storage up to a total of 3.7 billion bytes of formatted capacity in one cabinet, the three cabinets pictured above are used not only for the specific disk but also include the necessary SCSI controller.

The mix of disk units within a cabinet and their usability on specific processors is determined by the associated operating systems.

The 6092 Disk Subsystem supports 134 MB to 264 MB of data storage. The 5496 disk subsystem supports a single or dual 6545 disks. The VRX and VRX/E 6099 Disk Subsystems support either the 6543, 6546, 6547 or 6570 disks with up to 3.7 billion of data storage in a single cabinet.

Disk Performance

Characteristics	NCR 6543	NCR 6545	NCR 6546	NCR 6547	NCR 6570
Transfer Rate	14.52 MBs	14.52 MBs	14.52 MBs		
Rotational Speed	3600 RPM	3600 RPM	3600 RPM	3600 RPM	3600 RPM
Tracks Per Surface	1422	1213	1217	1380	1023
User Data Capacity	415.2 MB	304.3 MB	408.9 MB	696.5 MB	927.9 MB
Number of Surfaces	12	10	10	15	27
Heads Per Surface	2	1	1	1	1
Sectors Per Track	48	49	66	66	66
Max # of Usable Sectors (After initialization)	810,938	594,370	798,634	1,360,351	798,599
Data Bytes Per Sector	15 MS	512	512	512	512
Average Seek Time	20 MS	18 MS	18 MS	16 MS	15 MS
Maximum Seek Time	45 MS	35 MS	35 MS	30 MS	27 MS
Avg. Latency Time	8.3 MS	8.3 MS	8.3 MS	8.3 MS	8.3 MS
Max. Latency Time	16.8 MS	16.7 MS	16.8 MS	16.7 MS	16.8 MS
Avg. Access Time	28.3 MS	26.3 MS	26.33 MS	24.3 MS	23.3 MS
Max. Access Time	61.8 MS	51.7 MS	51.83 MS	46.7 MS	43.8 MS

NCR 6320 TAPE DRIVE
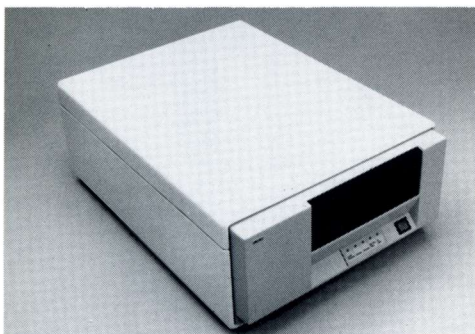
The NCR 6320 Tape Drive provides a convenient and reliable ½-inch reel-to-reel tape media. The NCR 6320 Streaming Tape Drive provides convenient features such as automatic loading, multiple speeds and industry compatibility.

Some basic features:

- Multi-speed Operation: 15 and 100 inches per second (ips) speed at a recording density of 1,600 bits per inch (bpi) or 50 inches per second at 3,200 bpi. The drive will automatically slow to 25 inches per second if the data rate from the host processor is not sufficient to keep the drive running at 100 ips.
- Automatic Loading: once the reel is inserted, this drive's unique automatic loading feature threads the tape for you.
- ANSI and IBM Compatibility: This drive can read and write ANSI compatible tapes recorded at 1,200 bpi or IBM-compatible tapes recorded at 3,200 bpi.

Specifications	
Height:	10.5 inches
Width:	20 inches
Depth:	27 inches
Weight:	45 lbs

NCR 6323 TAPE DRIVE

The NCR 6323 Magnetic Tape Drive is an SCSI ½-inch tape drive that can be used in performance-oriented applications. The 6323 runs at 25 or 75 inches per second (ips) during streaming operation and 25 ips during stop/start operation. The 6323 can record data in either Group Coded Recording Mode at 6,250 bits per inch (bps) or Phase Encoding Mode at 1,600 bps.

The 6323 tape drive contains a 64 KB buffer to improve streaming operation and an Adaptive Velocity Control feature to control the speed of the drive.

Specifications

Recording Mode	Phase Encoded	Group Recording
Recording Density	1,600 bpi	6,250 bpi
Unformatted Capacity	46 MB	180 MB
Tape Speed	25 or 75 ips	25 or 75 ips
Data Transfer Rate	120 KB/s at 75 ips	469 KB/s at 75 ips
	40 KB/s at 25 ips	156 KB/s at 25 ips

Dimensions:

Height	56 inches
Width	22 inches
Depth	35 inches
Weight	340 lbs.

NCR 6373 TAPE DRIVE
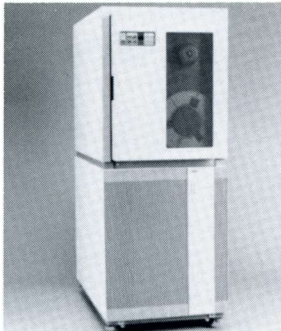
The NCR 6373 Magnetic Tape Drive is a ½-inch tape drive, utilizing an IOSS system interface, that can be used in performance-oriented applications. The 6373 runs at 25 or 75 inches per second (ips) during streaming operation and 25 ips during stop/start operation. The 6373 can record data in either Group Coded Recording Mode at 6,250 bits per inch (bpi) or Phase Encoding Mode at 1,600 bpi.

The 6373 tape drive contains a 128 KB buffer to improve streaming operation and an Adaptive Velocity Control (AVC) feature to control the speed of the drive. The AVC automatically lowers the tape speed to 25 ips if the data transfer rate from the host processor is not sufficient to maintain 75 ips.

Specifications

Recording Mode	Phase Encoded	Group Recording
Recording Density	1,600 bpi	6,250 bpi
Unformatted Capacity	46 MB	180 MB
Tape Speed	25 or 75 ips	25 or 75 ips
Data Transfer Rate	120 KB/s at 75 ips	469 KB/s at 75 ips
	40 KB/s at 25 ips	156 KB/s at 25 ips

Dimensions:
Height	56 inches
Width	22 inches
Depth	35 inches
Weight	340 lbs.

NCR 6376 SUBSYSTEM

The NCR 6376 Magnetic Tape Subsystem has been designed to save time, space and money for NCR users. A high-performance subsystem, the NCR 6376 provides exceptional reliability, operator and tape resource efficiency and saves computer room resources.

Some basic features:
- 200 inches per second stop/start tape speed
- Dual recording modes
  - —1,600 bits per inch (bpi) phase encoded
  - —6,250 bpi group coded recording
- Up to 173 MB storage capacity, formatted
- Automatic tape threading and easy-load cartridge
- 2-digit status display for faults, conditions and actions
- Tape quality monitor marks tapes with excessive retries
- A dual controller option provides extra flexibility and availability
- Primary unit's controller can support up to 8 tape drives

Specifications

	PE MODE	CGR MODE
Recording Density	1,600 bpi	6,250 bpi
Tape Speed	200 ips	200 ips
Transfer Rate	320 KB/sec	1.25 MB/sec
Rewind Time	66 Sec/2,400 ft	66 Sec/2,400 ft
Loading Time	12 Seconds	12 Seconds

NCR 6417 DOT MATRIX PRINTER
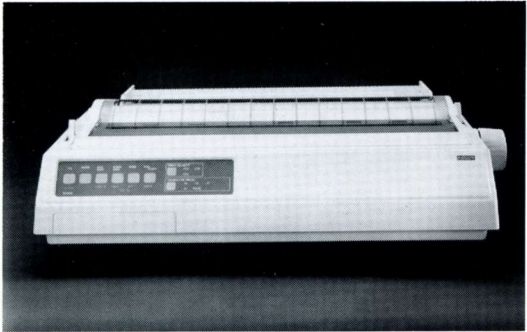
The NCR 6417 is a compact, desktop matrix printer designed for general purpose use in a variety of applications. The 6417 supports the most popular industry-standard applications for word processing, business graphics and spreadsheets. The NCR 6417 prints up to 300 characters per second and up to 240 × 72 dots per inch resolution for graphics.

Some basic features:

- 9-pin printhead
- IBM Proprinter II/XL and Epson FX86e/286e emulations
- 3 million character, self-inking ribbon cartridge
- 23 K standard memory
- Optional cut sheet feeder
- Optional RS-232-C serial interface
- 3 print modes: NLQ, utility and draft
- Handles variety of media
  —cut-sheet
  —continuous forms
  —multi-part forms
  —envelopes
  —labels
- Designed for up to 3,000 pages per month work load

NCR 6421 DOT MATRIX PRINTER
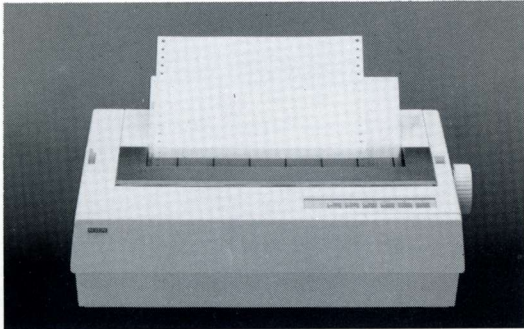
The 6421 family of printers are designed for general purpose use in a variety of systems and applications. The 6421 printers offer higher speed, better paper handling, better reliability, better resolution, more functions and more user options.

Some basic features:

- Office-quiet operation at 55 dBA
- Letter Quality print speed of 40 cps
- Letter Quality character resolution (27 × 27)
- Optional 8 K additional RAM (10 K total)
- Standard push and pull tractors
- Handles variety of media
  —cut-sheet
  —continuous forms
  —multi-part forms
  —envelopes
  —labels
- 3 print modes: LQ, NLQ, draft
- Designed for up to 10,000 pages per month work load

NCR 6424 LETTER-QUALITY MATRIX PRINTER
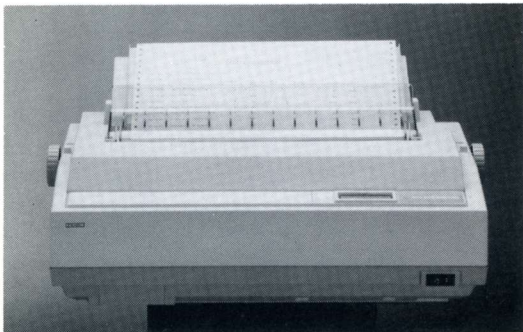
The 6424 is a 24-pin dot-matrix printer designed for word processing and a wide range of general purpose applications. The 6424 emulates the Diablo 630 and IBM Graphics printers, and most of the Epson FX-80 and FX-100 commands.

Some basic features:

- Office-quiet operation at 55 dBA
- 8-bit and 24-bit image graphics
- Optional sheet feeders for use on word processing applications
- Variety of media
  —cut sheet
  —continuous forms
  —multi-part forms
  —envelopes
  —labels
- Easy to use operator control panel
- High-resolution graphics
- 3 print modes: LQ, NLQ, draft
- Up to 240 cps (63 cps letter quality)

NCR 6430 BAND PRINTER

The NCR 6430 printers provide high-speed, reliable printing at either 360 lines per minute (lpm) or 720 lpm (with a 48 character set). The 6430-0101 (360 lpm) can be used as a remote printer using an RS-232-C interface. In addition to the RS-232-C interface, the 6430-0201 (720 lpm) can be used as a systems printer on NCR systems.

Some basic features:

- Operator changeable print band
  - —48 characters
  - —64 characters
  - —64 characters 15 cpi (model 0101 only)
  - —96 characters
- 4-digit alphanumeric display panel
- Operator alphanumeric display panel
- Convenient cassette ribbon system
  - —"Clean hands"
- Small footprint
- Manual form length selection
- Early end-of-print detection
- Audible alarm for ribbon or paper faults

Specifications

Print Rate (lpm)	6430-0101	6430-0201
48 character set	360	720
64 character set	300	600
96 character set	220	440

NCR 6435 LASER PRINTER
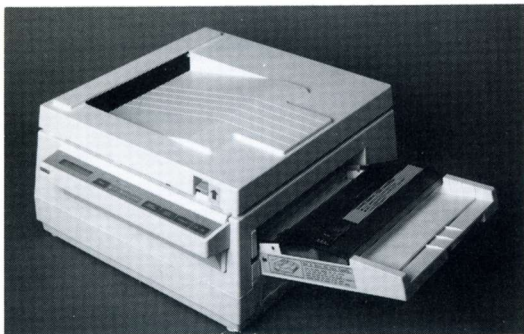
The 6435 is a six ppm, desktop laser printer designed for letter quality document and high-resolution graphics output. The 6435 produces up to 300 dpi resolution at a quiet 52 dBA suitable for office environments. The 6435 is suited for application work loads up to 5,000 pages per month with an expected life of 300,000 pages.

The 6435 can be used with the NCR Financial Tower System and the Electronic Forms Software.

Some basic features:
- 512 KB memory standard
- Up to 4 MB memory optional
- HP LaserJet II and Diablo 630 emulation standard
- IBM Proprinter XL, Epson FX-86e and HPGL Plotter emulation optional
- Optional HP-compatible font cartridges
- Parallel, RS-232 and RS-422 serial interface standard
- 150-sheet input and output bins

NCR 6436 LASER PRINTER
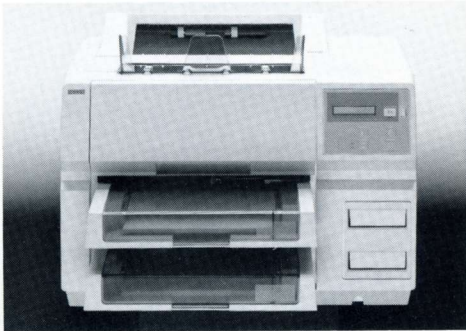
The NCR 6436 is a desktop, non-impact, general purpose page printer capable of delivering letter-quality text and high-resolution graphics at speeds of up to 15 pages per minute. The 6436 is designed for use in applications which require large volumes of letter-quality documents as well as in multi-user environments. All of the printer's consumables are customer replaceable to help provide low cost-per-page operations, even in high-production installations.

Some basic features:
- Office-quiet operation at less then 55 dBA
- High-resolution full page graphics standard
- RS-232-C serial or Centronics parallel interface
- (2) 250-sheet input trays
- 500 sheet output tray
- Landscape and portrait printing
- 1.5 MB memory standard
- HP LaserJet Plus, HP LaserJet 500 Plus emulations standard
- Optional emulation and font cartridges

NCR 6437 ION DEPOSITION PRINTER

The NCR 6437 Ion Deposition Printer is a 30 page per minute, compact, medium speed printer. It offers high-volume output electronic forms capabilities, document storage, and letter-quality printing. It features a raster image processor that prints graphics, logos, forms, and text in either portrait or landscape orientation, at 300 dots per inch (dpi), with a typeset look. It also meets the speed and volume requirements of offices and data centers up to 150,000 pages per month.

Some basic features:

- 4 MB memory standard
- Prints 30 pages per minute
- Accepts letter and legal paper sizes
- High-resolution 300 dpi
- Optional 2000-sheet elevator feeder
- Ion deposition technology
- Versatile font capabilities
- Graphics capabilities and forms design
- Operational forms overlay capability
- Diablo emulation resident with optional HP laserjet emulation

NCR 6438 ION DEPOSITION PRINTER
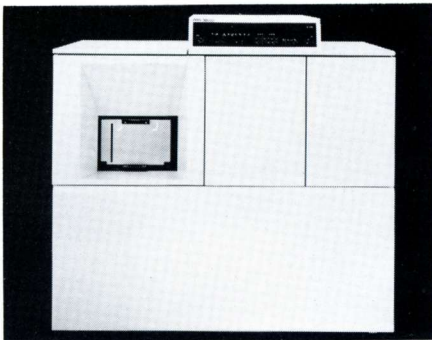
NCR's 6438 is a 75 pages per minute ion deposition printer designed for volume applications up to 1.5 million pages per month. It delivers the volume and consistency of a line printer with the versatility of a laser printer. It is a truly practical high-speed solution to high-volume printing needs.

Some basic features:

- Prints 75 pages per minute
- Monthly print volume up to 1.5 million pages
- High-resolution 240 dots per inch
- 1500-sheet powered output tray
- Low-cost consumables easily replaceable by operator
- Variety of resident typefaces
- Prints on economical letter-size paper
- Optional forms overlay capability

NCR 6444 MATRIX PRINTER
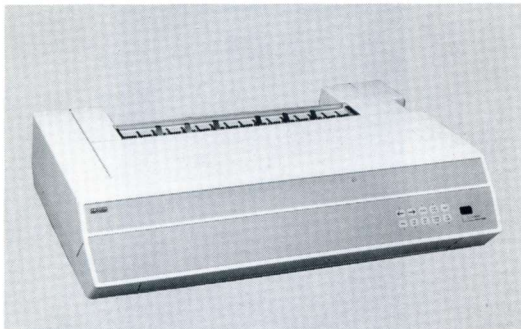
The NCR 6444 is a 132 column, 18 wire, dot matrix impact printer designed for a variety of NCR computer systems. A tabletop printer, the 6444 provides draft, data processing, word processing and graphics modes of operation. In the draft mode the 6444 prints at over 400 characters.

Some basic features:

- 18-wire print head
- Serial interface
- 400 cps draft print speed
- 120 cps NLQ print speed
- 15 inches/second paper slew
- Pin-addressable (bit-mapped) graphics
- Office-quiet operations at 55dBA
- Superior paper handling
- Up to 6-part forms
- No duty cycle restrictions
- Optional large character, OCR print capability
- Optional parallel interface
- Optional barcodes

NCR 6450 MATRIX PRINTER

The NCR 6450 Line Matrix Printers offer medium-speed, high-quality and reliable printing at up to 400 or 800 lines per minute (lpm) depending upon the model and print mode used. These printers operate in four print modes — high-speed draft, data processing, near letter quality and enhanced.

Some basic features:

- Graphic capabilities
- Electronic font changes
- Character set flexibility
- Horizontal and vertical character expansion
- 5 character pitches
- Superscript/Subscript, auto-underline, bold
- Quiet operation — 55 dBA
- Forward and reverse paper movement
- ANSI and Printronix emulation
- Optional barcodes
- Optional OCR A/B fonts
- Optional download font capability

Printer Speed Mode	6450-X101	6450-X201
High-Speed Draft	400 lpm	800 lpm
Data Processing		
Upper case only	300 lpm	600 lpm
Upper/lower case	240 lpm	400 lpm

NCR 6451 MATRIX PRINTER
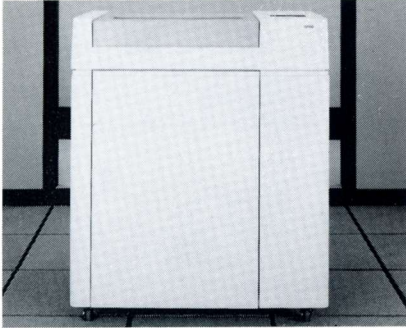
The NCR 6451 Matrix Printer offers high-quality, reliable printing for volume print applications with speeds up to 1,200 lines per minute (lpm). The 6451 printer operates in four print modes, high-speed draft, data processing, correspondence and compressed.

Some basic features:

- Graphic print speeds up to 129 inches per second
- Electronic font changes
- Character set flexibility
- Horizontal and vertical character expansion up to 125 times
- Multiple character pitches
- Superscript/Subscript, auto-underline, bold
- Excellent forms handling/print quality
- Resident barcodes and OCR A/B fonts
- Resident download font capability

Printer Speeds

High-speed draft	1,200 lpm
Data processing	900 lpm
Correspondence	450 lpm
Compressed	338 lpm
OCR-A	720 lpm
OCR-B	415 lpm
Line drawing	810 lpm

NCR 6470 BAND PRINTER

The NCR 6470 Band Printer is a high-speed impact printer that provides excellent print quality and very high reliability. The 6470 prints up to 2,000 lines per minute (lpm). The 6470 is designed for high-volume continuous or peak period printing.

Some basic features:
- Power stacker for reliable stacking
- Attention light on top to alert operator
- Full time vacuum cleaning system to remove dust and lint
- Operator changeable print bands — 48, 64 or 96 characters
- Operator selectable forms length
- Office-quiet operations at 55 dBA
- Optional OCR A/B bands
- Optional hour meter

Print Speed:

	6470-XXXX
48 character band	1,500 lpm
64 character band	1,250 lpm
96 character band	925 lpm

NCR 7120 MODEM

The NCR 7120 is a 1200 bits per second (bps) asynchronous modem used for either dial or leased lines. The NCR 7120 is commonly used for transmission of batch data to central processing sites.

Some basic features:
- Asynchronous, full-duplex communications capabilities at 1200 bps over 4-wire leased lines
- Asynchronous, half-duplex communications capabilities at 1200 bps dial-up, 2-wire lines
- Automatic answer—when receiving a call, this modem does not require manual intervention
- Bell 202S/T-compatible

NCR 7122 MODEM
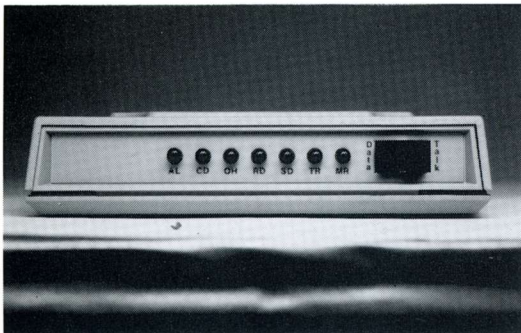
The NCR 7122 is designed as a stand-alone desktop modem for personal computers with the serial RS-232-C interface. The 7122 runs at speeds from 300 to 1200 bits per second (bps).

Some basic features:

- Asynchronous communications from 300 to 1200 bps
- Auto dial with auto select of tone or pulse dialing modes
- Automatic answer—when receiving a call, this modem does not require manual intervention
- AT-compatible command set
- Bell 103-compatible at 300 bps
- Bell 212A-compatible at 1200 bps

NCR 7123 MODEM

The NCR 7123 is a 2400 bits per second (bps) asynchronous/ synchronous modem for use with standard dial-up-phone lines. The 7123 Family of modems is compatible with the popular ''AT'' command set and is capable of error detection and correction. The 7123-0200 features data compression.

Some basic features:

• Asynchronous/synchronous operation
• Auto dial, auto answer, and auto redial
• CCITT V.22 bisynchronous at 2400 bps
• Bell 103-compatible at 300 bps
• Bell 212A-compatible at 1200 bps

NCR 7133 MODEM

The NCR 7133-0100 Modem is a direct-connect dial modem designed for 2400 bits per second (bps) synchronous communications. The modem is commonly used in environments where a dedicated phone line cannot be cost-justified. The 7133-0100 is used to transmit batch data to another site where another 7133-0100 modem or a Bell 201C-compatible modem is used.

Some basic features:

• Synchronous, half-duplex communications capability at 2400 bps over dial-up, 2-wire phone lines

• Automatic answer—when receiving a call, this modem does not require manual intervention

• Compact enclosure—6.95 in. × 9.55 in. × 2.25 in.

The full duplex NCR 7133-0200 offers NCR users a low-cost method of transmitting on-line transaction data over leased telephone lines. Compatible with the industry-standard Bell 201B modem, it can be used to transmit data to a central site where Bell 201B or other compatible modems are installed.

NCR 7134 MODEM

The NCR 7134 is a 4800 bits per second (bps) synchronous modem for use with either dial or leased lines. This modem has an anti-streaming feature that prevents a terminal from monopolizing a network.

Some basic features:

- 4800 bps synchronous communications
- Anti-streaming
- Bell 208A/B-compatible

NCR 7135 MODEM
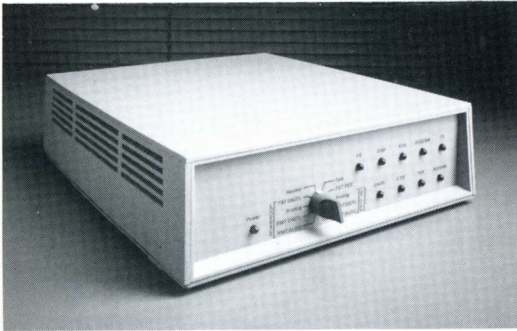
The NCR 7135 is a stand-alone modem, featuring synchronous communications at 9600 bits per second (bps). The 7135 may be used in either dial or leased line environments.

Some basic features

- Synchronous, point-to-point, full-duplex communications capability at 9600 bps over leased, 4-wire phone lines
- Synchronous, half-duplex communications capability at 9600 bps over dial-up, 2-wire lines
- Automatic answer not requiring manual intervention

NCR 7144 MODEM

The NCR 7144 high-speed diagnostic modem combines sophisticated high-speed data transmission technology and advanced network diagnostic capabilities. Operating over leased-line transmission facilities, the 7144 provides every function necessary to configure, monitor, test and control point-to-point or multipoint applications.

Some basic features:

- Synchronous communications at 4800 bps with fallback to 2400 bps
- Comprehensive diagnostics for rapid fault isolation and restoral
- Operator-friendly front panel with liquid crystal display and touch sensitive operation
- V.29 modulation and Adaptive Pre-Distortion Equalization
- Point-to-point and multipoint applications
- Soft strapping with battery-backed memory
- Optional integral 2-port TDM multiplexer

NCR 7145 MODEM

The NCR 7145 high-speed diagnostic modem combines sophisticated high-speed data transmission technology and advanced network diagnostic capabilities. Operating over leased-line transmission facilities, the 7145 provides every function necessary to configure, monitor, test and control point-to-point or multipoint applications.

Some basic features:

- Synchronous communications at 9600 bps with fallback to 4800 bps
- Comprehensive diagnostics for rapid fault isolation and restoral
- Operator-friendly front panel with liquid crystal display and touch sensitive operation
- Trellis forward error correction and Adaptive Pre-Distortion Equalization
- Point-to-point and multipoint applications
- Soft strapping with battery-backed memory
- Optional integral 4-port TDM multiplexer

NCR 7146 MODEM

The NCR 7146 high-speed diagnostic modem combines sophisticated high-speed data transmission technology and advanced network diagnostic capabilities. Operating over D1 conditioned leased-line transmission facilities, the 7146 provides every function necessary to configure, monitor, test and control point-to-point or multipoint applications.

Some basic features:

- Synchronous communications at 14,400 bps with fallback to 12,000 or 9600 bps
- Comprehensive diagnostics for rapid fault isolation and restoral
- Operator-friendly front panel with liquid crystal display and touch sensitive operation
- Trellis forward error correction
- Full V.33 compliance
- Soft strapping with battery-backed memory
- Optional integral 6-port TDM multiplexer

NCR 7184 STATISTICAL MULTIPLEXER

The NCR 7184 is a fully-featured four-port statistical multiplexer designed for use with a standard full duplex synchronous modem. The NCR 7184 offers the customer savings in line and equipment costs.

Some basic features:

- 4 terminal ports
- Independent port set-up—ports may be configured for different types of equipment
- Simplified front panel selection of all operating characteristics of terminal and modem ports, including a comprehensive set of status, statistics, alarm and test functions

NCR 7188 STATISTICAL MUL-TIPLEXER

The NCR 7188 is a fully-featured eight-port statistical multiplexer designed for use with a standard full duplex synchronous modem. The NCR 7188 offers the customer savings in line and equipment costs.

Some basic features:

- 8 terminal ports
- Independent port set-up—ports may be configured for different types of equipment
- Simplified front panel selection of all operating characteristics of terminal and modem ports, including a comprehensive set of status, statistics, alarm and test functions

NCR SYSTEMS PERIPHERAL

	NCR Tower								General Purpose Systems		System 10000			
	32/200	32/300	32/450	32/500	32/650	32/700	32/825	32/850	V-8800	9800	35	55	65	75
Disk Products														
3699/6546							•	•						
3699/6570							•	•						
3892/6516	•										•			
5496/6545												•	•	•
6092/6516														
6098/6518		•	•	•	•	•								
6098/6545			•		•									
6099/6546									•	•				
6099/6547										•				
6099/6570										•				
Tape Products														
3699/6323							•	•						
6091/8mm		•		•	•	•	•	•						

Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14
6320/PE-GCR	•	•		•	P	•	•	•	•	•	•	•	•	•
6323/PE-GCR	•	•		•	P	•	•	•	•	•	•	•	•	•
6373/PE-GCR	•	•		•	P	•	•	•	•	•	•	•	•	•
6376/PE-GCR	•				P	•	•	•	•	•	•	•	•	•
Printers			•	•										
6417			•	•	P	•	•	•	•	•	•	•	•	•
6421					R/C	•	•	•	•	•	•	•	•	•
6424						•	•	•	•	•	•	•	•	•
6430					S/R	•	•	•	•	•	•	•	•	•
6435						•	•	•	•	•	•	•	•	•
6436					R	•	•	•	•	•	•	•	•	•
6437					P	P	P	P	P	P	P	P	P	P
6438					P	P	P	P						
6444					R	•	•	•	•	•	•	•	•	•
6450					S/R	•	•	•	•	•	•	•	•	•
6451					P	P	P	P	P	P	P	P	P	P
6470					S	•	•	•	•	•				

C = Console printer
P = Planned, availability to be announced
R = Remote/application printer
S = System printer

Media
Requirements

The following pages contain
Media Requirements
for use on
NCR Systems.

For more information please
contact your local Media
Products Division Salesperson or
call: 1-800-824-0510
1-800-824-0490 (In Ohio)

Media Requirements

NCR Class/Model Number	Description	Stock #	Description
I. NCR General Purpose Processors			
Tower 32/200	Processor	279857	Data Cartridge ¼″ x 450′ 45 Mb
		280833	5 ¼″ DS/DD Flexible Disk 96 TPI
Tower 32/300	Processor	★	★ See Tower 32/200
Tower 32/450	Processor	★	★ See Tower 32/200
Tower 32/500	Processor	★	★ See Tower 32/200
Tower 32/650	Processor	★	★ See Tower 32/200
Tower 32/700	Processor	★	★ See Tower 32/200
Tower 32/825	Processor	★	★ See Tower 32/200
Tower 32/850	Processor	★	★ See Tower 32/200
II. NCR General Purpose Workstations			
4902	Video Display Terminal	N/A	
4920	Video Display Terminal	N/A	
4940	Video Display Terminal	N/A	
4970	Video Display Terminal	N/A	
PC 286	Personal Computer	280697	3.5″ DS/DD Flexible Disk 135 TPI, 720 Kb Capacity
		Optional: 280684	3.5″ DS/HD Flexible Disk 135 TPI,1.44 Mb Capacity
PC 386	Personal Computer	★	★ See PC 386 sx
PC 386 sx	Personal Computer	280697	3.5″ DS/DD Flexible Disk 135 TPI, 720 Kb Capacity
		Optional: 280684	3.5″ DS/HD Flexible Disk 135 TPI, 1.44 Mb Capacity
		279925	¼″ x 205′ Mini Data Cartridge, 80 Mb Tape Drive
PC386 sx/MC	Personal Computer	★	★ See PC 386 sx
PC810	Personal	Optional: 280781	5 ¼″ DS/DD 48 TPI
		280752	5 ¼″ Flexible Disk 1.6 Mb
		280684	3 ½″ Flexible Disk 1.44 Mb
		280697	3 ½″ DS/DD Flexible Disk 135 TPI
		279844	Data Cartridge 60 Mb
		279925	Mini Data Cartridge 40 Mb
PC920	Personal Computer	★	★ See PC 810
III. NCR General Purpose Systems			
System 10,000 (Models 35,55, 65, & 75	General Purpose System	★	★ Refer to the appropriate tape drives, printers, etc. configured for these systems.
V-8800	General Purpose System	★	
9800	General Purpose System	★	

NCR Class/ Model Number	Description	Stock #	Description
IV. NCR Data Collection Systems			
2725	Transaction Terminal	N/A	
2735	Data Collection Terminal Family	N/A	
2841	Time and Attendance Terminal	N/A	
2842	Data Entry Terminal	N/A	
2845	Time and Attendance Terminal	N/A	
2850	Media Input Adapter	N/A	
3285	Subsystem Controller	280833	5 ¼″ DS/DD Flexible Disk 96 TPI
		279886	Mini Data Cartridge 20 Mb
3695	Data Collection System	N/A	
3760	Controller	N/A	
5620 XP	Data Collection System	N/A	
5660	Data Collection System	N/A	
DPS 25	Source Data Collection System		
V. NCR Financial Systems			
Tower	Financial System TMX & Unix	279857	¼″ × 450′ Data Cartridge 45 Mb
		279938	¼″ × 600′ Data Cartridge 150 Mb
Tower	Financial System Unix	279857	¼″ × 450′ Data Cartridge 45 Mb
		279938	¼″ × 600′ Data Cartridge 150 Mb
5037	Laser Printer	111038	Toner Set
		111070	OPC Drum
		111054	Transfer Unit
		111041	Developer Unit
		111067	Fuser Assembly
5067	Financial Workstation	802004 198213	177J Journal 1 Ply Answer Cassette (Purple)
		280697	3.5″ DS/DD Flexible Disk, 135 TPI, 720 Kb Capacity
		Optional: 802114 198226	177J2 Journal 2 Ply Answer Cassette (Black)
5267	Financial Workstation	802004 198213	177J Journal 1 Ply Answer Cassette (Purple)
		280697	3.5″ DS/DD Flexible Disk, 135 TPI, 720 Kb Capacity
		Optional: 802114 198225	177J2 Journal 2 Ply Answer Cassette (Black)

Media Requirements

NCR Class/ Model Number	Description	Stock #	Description
5070	Interior ATM	822712 822725 198475	5070ZP Receipt 5070D Journal Cassette Ribbon (Receipt and Journal)
5070 SST	ATM	★	★ See 5070 Media Requirements
5081	Through-the-Wall ATM	822372 822369 841010 280833 198226	178ZP Gold Tint Receipt 178ZG Green Tint Receipt 177D Journal 5 1/4" DS/DD Flexible Disk 96 TPI Answer Cassette
5084	Cash Dispense Terminal	822712 822725 198475 280833	5070ZP Receipt 5070D Journal Cassette Ribbon (Receipt and Journal) 5 1/4" DS/DD Flexible Disk 96 TPI
5085	ATM	★	★ See 5084 Media Requirements
5088	ATM	★	★ See 5084 Media Requirements
5285	Depository	N/A	
5571	Terminal	822725 198776	5070D Journal Roll Document/Statement Printer Ribbon
5682	Interactive Self-Service Terminal	822754 822725 198682	5682 ZP Receipt 5070 D Journal Cassette (Receipt & Journal)
		Optional: 280684 198679 Custom	3.5" Flexible Disk 1.44 Mb Cassette (Document Printer) Document Printer Paper
6760	Tower-Check System	196370 950532 195326 195339	Endorser Ink Roll Electro Ink Jet Cartridge Cleaning Card
		Optional: 904834 904902 904915	16mm Microfilm (50') 16mm Microfilm (100') 16mm Microfilm (215')
7720-3000	Desktop System	856678 182312 950613 199759	1 Ply Journal (Thermal) Encode 80 MICR Ribbon (1800') Electro Endorser Ink Roll
		Optional: 182355	Endorser Cassette Ink Ribbon
7766	Clustered Proof System	857130 182423 198310 199157 199610 950435	Fanfold Paper 2 Ply W/C MTTR Encoding Ribbon Answer Cassette (Purple) Endorser Ink Ribbon Endorser Ink Roll Electro
		Optional: 137559 857114 857127	Fanfold Paper 1 Ply Fanfold Paper 2 Ply W/C (Extra Folds) Fanfold Paper 2 Ply
7770-7000	Item Processor	856571 856539 182054	Thermal Fanfold 1 Ply Thermal Lister Roll 1 Ply Encode 80 MICR Ribbon

NCR Class/ Model Number	Description	Stock #	Description
7770-7000 (Cont.)		198640 950613 166232	Endorser Cassette (Purple) Endorser Bank Stamp Replenishment Ink
		Optional: 856940 856953 198666	Thermal Fanfold 2 Ply Thermal Lister Roll 2 Ply Endorser Cassette (Black)
VI. NCR Retail Systems			
1830	Self Service Terminal	820060 198213 **Optional:** 198226	177Z Receipt ANSWER Cassette (Purple) ANSWER Cassette (Black)
2113	ECR	820044 839750 199791 **Optional:** 198213	113Z Receipt 214D Journal Ink Roll (Purple) ANSWER Cassette (Purple) Slip Printer
2121	ECR	822518 199021 950642	220Z Receipt and Journal Ink Ribbon (Purple) Electro
2123	System	820044 839750 199791 **Optional:** 198213	113Z Receipt 214D Journal Ink Roll (Purple) ANSWER Cassette (Purple) Slip Printer
2126-5000	Terminal	820086 839750 820060 841010 198213 279802 280901	214Z 21 Column Receipt 214D 21 Column Journal 177Z 40 Column Receipt 177D 40 Column Journal ANSWER Cassette (Purple) Digital Data Cassette 282' (Data Capture) Digital Data Cassette 50' (Program Load)
		Optional: 280956 280781	8" DS/DD Flexible Disk 5 1/4"DS/DD Flexible Disk 48 TPI
2126-6000	Quick Service System	820086 839750 841010 198213 280901 279802	214Z 21 Column Receipt 214D 21 Column Journal 177D 2561 Kitchen Printer ANSWER Cassette (Purple) Digital Data Cassette 50' (Program Load) Digital Data 282' (Data Capture)
2127	Retail System	820060 841010 820086 839750 198213 280684	177Z Receipt 42 Column 177D Journal 42 Column 214Z Receipt 21 Column 214D Journal 21 Column ANSWER Cassette (Purple) 3.5" Flexible Disk 1.44 Mb
2160	Food Service System	820086 839750 820060 841010 198213 280901	214Z 17 Column Receipt 214D 17 Column Journal 177Z 40 Column Receipt 177D 40 Column Journal ANSWER Cassette (Purple) Digital Data Cassette 50' (Program Load)

Media Requirements

NCR Class/ Model Number	Description	Stock #	Description
2160 (Cont.)		279802	Digital Data Cassette 282' (Data Capture)
2760	Food Service System	820060 841010 198213 175074	177Z Receipt 177D Journal ANSWER Cassette—Purple Keyboard Overlay—Printed
		Optional: 845922 198226 175061	177Z2 Receipt 2 Ply ANSWER Cassette—Black Keyboard Overlay—Clear
5682	Interactive Self-Service Video	822754 822725 198682	5682ZP Receipt 5070D Journal Cassette Receipt & Journal
		Optional: 280684 198679	3.5" Flexible Disk 1.44 MB Cassette Document Printer
7000 CP	Continuous Processing System	820060 841010 198213 280833 279857	177Z Receipt 177D Journal ANSWER Printer Cassette 5 1/4" DS/DD Flexible Disk 96 TPI Data Cartridge 1/4" × 450' 45 MB
		Optional: 198750 198255 198352 198734	7150 Receipt, Journal, Slip Printer, Cassette Ink Ribbon (Black) 6411 Printer Ribbon (Black) 6442 Printer Ribbon (Black) 6444 Printer Ribbon (Black)
7052	POS Workstation System	820060 841010 198750 280684 279925	177Z Receipt 177D Journal 7150 Printer Cassette Ink Ribbon—Black 3.5" Flexible Disk 1.44 MB Mini Data Cartridge 40 MB
7052D	POS Workstation System	★	★ See 7052 Media Requirements
7820	UPC/EAN Scanner	N/A	
7824	Scanner/Scale	N/A	
7852	Scanner	N/A	
VII. NCR Peripherals			
4430	Reader	N/A	
3892/3699/6099	Disk Subsystems	N/A	
6091	Magnetic Tape Unit	279653	8mm Cartridge .271 Gb
		Optional 279640 279637	8mm Cartridge 1.086 Gb 8mm Cartridge 1.90 Gb
6092/5496/6099	Disk Subsystem	N/A	
6320	Tape Drive	242826	Magnetic Computer Tape (2400')
		Optional: 242868 242923	Magnetic Computer Tape (1200') Magnetic Computer Tape (600')
6323	Tape Drive	★	★ See 6320 Media Requirements

Media Requirements

NCR Class/ Model Number	Description	Stock #	Description
6373	Tape Drive	★	★ See 6320 Media Requirements
6376	Subsystem	242800	Self-Threading Computer Tape (2400')
		Optional: 242826	Magnetic Computer Tape (2400')
		242868	Magnetic Computer Tape (1200')
		242923	Magnetic Computer Tape (600')
6417	Dot Matrix Printer	198336	Cassette Ribbon (Black)
6421	Dot Matrix Printer	198255	Cassette Ink Ribbon (Black)
6424	Letter-Quality Matrix Printer	198844	Cassette Ribbon (Black)
6430	Band Printer	198271	Cassette Ribbon (Black)
6435	Laser Printer	111151 111164	Toner Kit OPC Kit
6436	Laser Printer	111119 111135	Toner Kit OPC Kit
6437	Ion Deposition Printer	N/A	
6438	Ion Deposition Printer	N/A	
6444	Matrix Printer	198530	Cassette Ribbon (Black)
6450	Matrix Printer	198747	Cassette Ribbon (Black)
6451	Matrix Printer	198857	Cassette Ribbon (Black)
6470	Band Printer	198543	High-Speed Printer Ribbon
		Optional: 198556	OCR Ribbon (Black)
7120	Modem	N/A	
7122	Modem	N/A	
7123	Modem	N/A	
7133	Modem	N/A	
7134	Modem	N/A	
7135	Modem	N/A	
7144	Modem	N/A	
7145	Modem	N/A	
7146	Modem	N/A	
7184	Statistical Multiplexor	N/A	
7188	Statistical Multiplexor	N/A	

NCR PHOTOGRAPHY ORDER NUMBERS

Photographs are available to all NCR people to include in proposals or present to prospectives, or customers.

The following is a list of photographs appearing in the NCR Products and Systems Pocket Digest which are in stock and can be ordered. To order, or for more information, call NCR AVR-Photography at (513) 445-1320 or VOICEplus 8-622-1320. Or complete NCR Photography Request Form #1338 and include your charge number and internal mailing address to:

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NCR Product or System	Order Numbers	
	B/W print	Color print
I. NCR GENERAL PURPOSE PROCESSORS		
NCR Tower 32 Family	88-111-5	88-111-5-C
NCR Tower 32/200	88-111-1	88-111-1-C
NCR Tower 32/300	89-361-1	88-361-1-C
NCR Tower 32/450	88-111-2	88-111-2-C
NCR Tower 32/500	89-361-2	89-361-2-C
NCR Tower 32/650	88-111-3	88-111-3-C
NCR Tower 32/700	89-282-1	NA
NCR Tower 32/825	89-34	89-34-C
NCR Tower 32/850	88-111-4	88-111-4-C
II. NCR GENERAL PURPOSE WORKSTATIONS AND SOFTWARE		
4902 Video Display Terminal	88-486-2	88-486-2-C
4920 Video Display Terminal	88-209-50	88-209-50-C
4940 Video Display Terminal	88-209-54	88-209-54-C
4970 Video Display Terminal	88-209-35	88-209-35-C
PC286	89-287-2	89-287-2-C
PC386	89-110-1	89-110-1-C
PC386sx	89-285-2	89-285-2-C
PC386sx/MC	89-286-2	89-286-2-C
PC810	87-200-3	87-200-3-C
PC920	89-51-1	89-51-1-C
III. NCR GENERAL PURPOSE SYSTEMS		
System 10000 Family	88-275	88-275-C
System 10000 Model 35	88-209-28	88-209-57-C
System 10000 Model 55	88-209-19	88-209-29-C

NCR Product or System	Order Numbers B/W print	Color print
III. NCR GENERAL PURPOSE SYSTEMS (Cont'd)		
System 10000 Model 65	88-209-17	88-209-27-C
System 10000 Model 75	88-209-18	88-209-28-C
V-8800	80-204-15	80-204-5-C
9800 Series	89-65-1	89-65-1-C
NCR 3695	89-77-1	89-77-1-C
NCR 5620XP		
Remote	89-127-2	NA
Front-end	89-127-1	NA
NCR 5660	89-76	89-76-C
IV. NCR DATA COLLECTION SYSTEMS		
2725 Data Collection Swipe Badge	89-325-1	89-325-1-C
2725 Data Collection Stripe Reader	89-325-2	89-325-2-C
2735 Data Collection Terminal Family	89-325-3	89-325-3-C
2841 Time and Attendance Terminal	89-123	NA
2842 Data Entry Terminal	83-417-34	83-417-25-C
2845 Time and Attendance Terminal	89-124	NA
3285 Subsystem	87-200-3	87-200-3-C
3760 Controller	83-417-17	83-417-7-C
DPS 25 Source Data Collection System	88-111-3	88-111-3-C
V. NCR FINANCIAL SYSTEMS		
NCR Financial Tower System—TMX	88-267-5	88-267-5-C
NCR Financial Tower System—UNIX	88-267-5	88-267-5-C
5037 Laser Printer	89-224-1	89-224-1-C
5267 Financial Workstation	89-350-6	89-350-6-C
5367 Financial Workstation	89-350-6	89-350-6-C
5070 Interior ATM	84-241	84-241-4-C
5070 SST	87-188-1	87-188-1-C
5081 Through-the-Wall ATM	84-436-1	84-436-1-C
5084 Cash Dispense Terminal	86-210-1	86-210-1-C
5085 ATM	87-190-1	87-190-1-C
5088 Firstline ATM	88-272-1	88-272-1-C
5088 Slimline ATM	87-189-1	87-189-1-C
5285 Business Depository	87-192-1	87-192-1-C
5571 Self-Service Information/ Statement Terminal	87-191-1	87-191-1-C

NCR Product or System	Order Numbers B/W print	Color print
V. NCR FINANCIAL SYSTEMS (Cont'd)		
5682 Automated Platform Machine	89-35-3	89-35-3-C
6760 NCR Tower-Check System	86-271-1	86-271-1-C
7720-3000 System	89-75	89-75-C
7766 Clustered Proof System	89-98-1	89-98-1-C
7770-7000 Item Processing Product Family	89-211-1	89-211-1-C
VI. NCR RETAIL SYSTEMS		
1830 Self-Service Fuel Terminal	82-553-3	82-553-5-C
2113 ECR	89-31	89-31-C
2121 ECR	87-97-1	87-97-1-C
2123 System	87-179-1	87-179-1-C
2126-5000 Terminal	86-268-2	86-268-2-C
2126-6000 Terminal	85-221-1	NA
2127 Retail System	88-370-1	88-370-1-C
2160 Food Service System	83-758-1	83-758-1-C
2760 Food Service System	89-57-1	89-57-1-C
5682 Interactive Self-Service Video System	89-35-2	89-35-2-C
7000CP System	87-31-5	87-31-5-C
7052 POS Workstation System	87-31-3	87-31-3-C
7052D POS Workstation System	89-337-1	89-337-1-C
7820 Scanner		
Flat Deck	85-334	85-334-C
Enhanced	83-161-1	83-161-1-C
7824 Scanner/Scale	86-301	86-301-C
7852 Terminal		
Vertical	89-198-RL-1	89-198-RL-1-C
Flat Deck	89-35-3	89-35-3-C
VII. NCR PERIPHERALS		
4430 Reader	85-631-1	85-631-1-C
6099 Disk Subsystem	88-209-46	88-209-46-C
6092 Disk Subsystem	89-126	NA
6320 Tape Drive	89-209-23	89-209-46-C
6323 Tape Drive	89-209-55	89-209-61-C
6373 Tape Drive	88-209-61	88-209-61-C
6376 Subsystem	88-209-1	88-209-20-C
6421 Dot Matrix Printer	88-209-16	88-209-43-C
6424 Letter Quality Matrix Printer	88-209-41	89-209-14-C

NCR Product or System	Order Numbers	
	B/W print	Color print
VII. NCR PERIPHERALS (Cont'd)		
6430 Band Printer	84-1-10	84-1-10-C
6435 Laser Printer	89-363-5	89-363-5-C
6436 Laser Printer	88-209-15	88-209-11-C
6444 Matrix Printer	88-209-2	88-209-21-C
6450 Matrix Printer	88-209-24	88-209-24-C
6470 Band Printer	88-209-29	88-209-32-C
7120 Modem	89-78-1	89-78-1-C
7122 Modem	88-417-2	88-417-2-C
7123 Modem	87-300-1	NA
7133 Modem	86-205-1	86-205-1-C
7134 Modem	88-417-12	88-417-12-C
7135 Modem	89-78-2	89-78-2-C
7144 Modem	89-78-4	89-78-4-C
7145 Modem	89-78-5	89-78-5-C
7146 Modem	89-78-6	89-78-6-C
7184 Statistical Multiplexer	89-78-3	89-78-3-C
7188 Statistical Multiplexer	89-78-7	89-78-7-C

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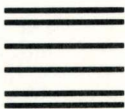
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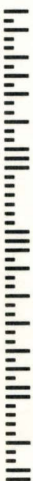NCR Corporation
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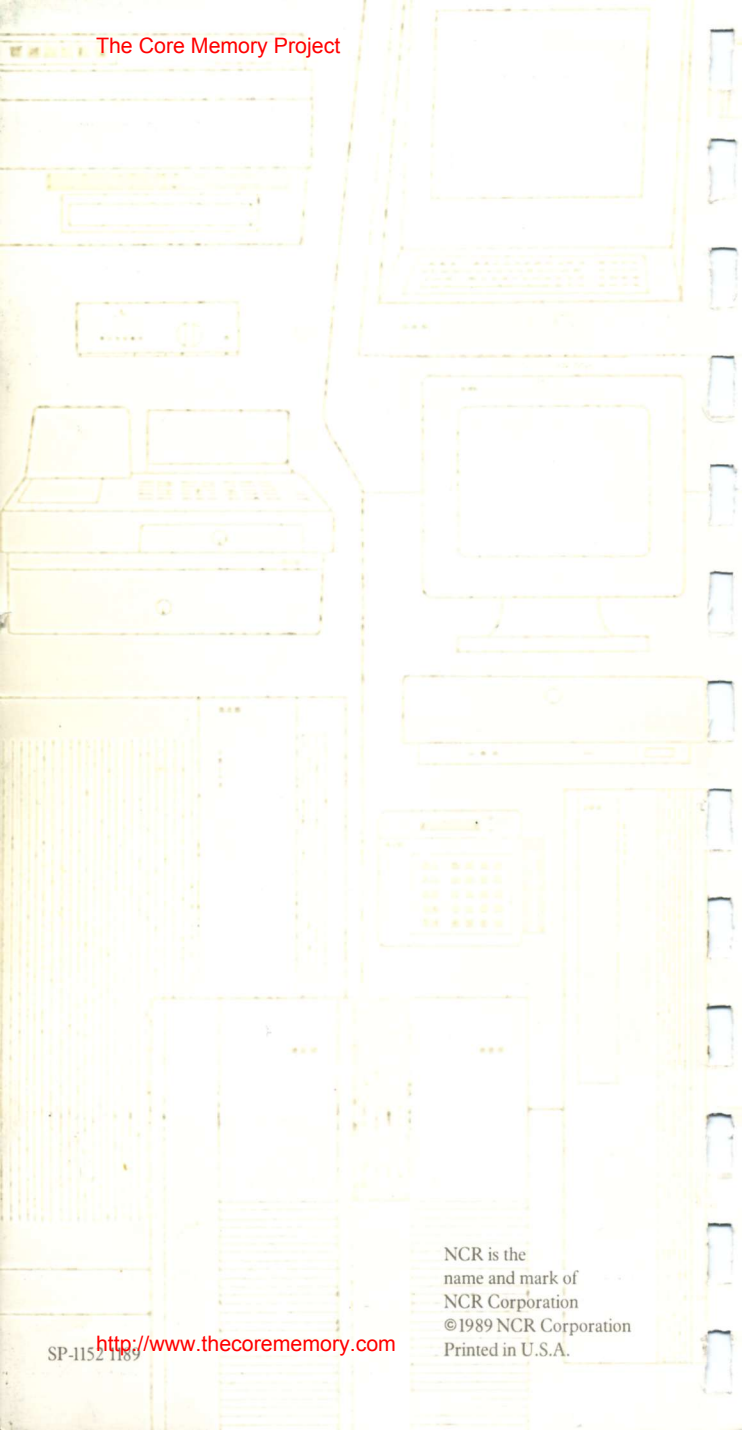Attn: Dawn Mellon, Editor
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