

NCR Century Series

New Product Announcement

N-8350 SERIES: NCR introduced eight new members of its now-extensive 8000 Series of computer systems in April 1977. Seven of these systems represented new hardware and software developments and are described on page 70C-656-02o. The eighth, although called the N-8350, is based on repackaged NCR Century 101 processors. NCR's purpose in creating the N-8350 systems was to offer an upward migration path to users of its discontinued Century 50 and Century 100 processors, enabling them to substantially improve system performance without the necessity for changing their peripheral subsystems and applications software.

The N-8350 Cassette Processing Systems include eight packaged systems, designed for cassette or disk input, that use the NCR Century B1 and B2 operating software. Although disk subsystems can be connected to the N-8350 systems, cassette tape is the primary system control device. Some of the significant specifications of the N-8350 systems include up to 128K bytes of main memory, up to 39.2 megabytes of disk storage using NCR's 656 cartridge disks, or up to 384 megabytes using the 657 disk pack drives, although not all these maximums apply to all members of the N-8350 systems. The characteristics of the eight N-8350 systems are outlined in the table for ease of comparison.

The N-8350 I/O subsystem can include up to four I/O trunks. Trunks 0 and 7 are included in the N-8351, N-8352, N-8353, and N-8359 models, while trunks 1 and 6 are added to the remaining four models. The former group can be upgraded to four trunks. Trunk 0 is a 120-KBS 5-position scanner trunk, four positions of which are dedicated to integral peripheral controllers. The fifth position can attach up to four low-speed peripheral devices. Trunk 7 is a 416-KBS, 7-position trunk that is used for faster peripheral devices. Trunk 1, also for low-speed devices, has eight positions and can sustain a data rate of 166 KBS. Trunk 6 is available in two versions: unbuffered with a data rate of 276 KBS or buffered with a data rate of 833 KBS. The buffered version is required in systems employing the 657 disk pack drives or the 633 magnetic tape units that have data rates of 80 KBS or greater.

All N-8350 Series systems include at least two I/O trunks, one or two cassette tape drives, a 9600- bps CRT display console, a line printer, and either a basic cartridge disk or disk pack subsystem. Additional memory up to a maximum of 128K bytes can be added to all but the N-8351 and N-8352 systems, and the number of I/O trunks can be increased to four on the N-8351, -8352, and -8359 models.

Disk storage on the N-8350 Series systems is based on either the 9.8-megabyte 656 cartridge disk drives or the dual-density 60/96-megabyte 657 disk pack drives. In all cases, disk subsystems are restricted to four drive units (eight spindles).

NCR offers six different line printers for the N-8350 Series systems that range in speed from 125 to 1100 lpm. There are printer substitutions available for all models except the N-8352, but not all printers are available with each system. The printer availability for the N-8350 systems is summarized in the second table.

CHARACTERISTICS OF THE NCR N-8350 SYSTEMS

	N-8351	N-8352	N-8353	N-8355	N-8356	N-8357	N-8358	N-8359
SYSTEM								
Memory size, bytes	32K	32K	64K	64K	64K	96K	96K	64K
Maximum memory, bytes	64K	64K	128K	128K	128K	128K	128K	128K
I/O trunks in basic system	2	2	2	4	4	4	4	2
I/O trunks optional	2	2	2	0	0	0	0	2
Extended addressing logic	No	No	Opt.	Incl.	Incl.	Incl.	Incl.	Opt.
PERIPHERALS								
Cassette tape drives in basic system	1	1	2	2	2	2	2	1
System printer, lpm	150	125	300	300	600	600	1100	150
Disk storage in basic system, megabytes	9.8	9.8	19.6	60	60	96	96	9.8
Maximum disk storage, megabytes	39.2	39.2	39.2	240	240	384	384	39.2
Magnetic tape units, KBS	to 40	to 40	to 240	to 240				
Communications lines, max. no.	253	253	253	253	253	253	253	253
PRICING								
Purchase price	\$68,650	\$61,000	\$102,790	\$136,260	\$150,765	\$163,255	\$168,850	\$81,775
Monthly rental	\$2,210	Purchase only	\$3,611	\$4,365	\$4,930	\$5,770	\$6,190	\$2,665

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PRINTER AVAILABILITY FOR N-8350 SYSTEMS

	N-8351	N-8352	N-8353	N-8355	N-8356	N-8357	N-8358	N-8359
125 lpm	No	Std.	No	No	No	No	No	No
150 lpm	Std.	No	No	Opt.	No	Opt.	No	Std.
300 lpm	Opt.	No	Std.	Std.	No	Opt.	No	Opt.
450 lpm	Opt.	No	Opt.	Opt.	No	Opt.	No	Opt.
600 lpm	Opt.	No	Opt.	Opt.	Std.	Std.	Opt.	Opt.
1100 lpm	No	No	Opt.	No	Opt.	No	Std.	No

Magnetic tape subsystems can be added to all N-8350 Series systems. The N-8351 and N-8352 support magnetic tape units with data rates up to 40 KBS while the N-8353 and larger systems support units with data rates up to 240 KBS.

Originally, the N-8350 Series systems were restricted to 16 communication lines, 8 synchronous and 8 asynchronous. Recently, however, NCR has released the 621-103 communications multiplexer for use with N-8350 systems. This multiplexer allows up to 253 synchronous or asynchronous lines to be connected to a system. □

EQUIPMENT PRICES

		<u>Purchase Price</u>	<u>Monthly Rental*</u>	<u>Monthly Maint.</u>
All systems include CPU, main memory, disk storage unit with control, single or dual cassette with interface printer and control, 9600-bps CRT with interface, and console table; max. 4 trunks				
5177-0101	N-8351 Basic System; includes CPU, two trunks, 32K bytes core memory, 150-lpm line printer, 9.8-MB disk unit; max. 64K bytes memory	\$69,650	\$2,210	\$439
5177-0101	N-8352 Basic System; includes CPU, two trunks, 32K bytes core memory, 125-lpm line printer, 9.8-MB disk unit; max. 64K bytes memory	61,000	NA	391
5177-0104	N-8353 Basic System; includes CPU, two trunks, extended addressing logic, 64K bytes core memory, 300-lpm line printer, 19.6-MB disk unit, dual cassette, sit-down console table, auxiliary cabinet; max. 128K bytes memory; requires 5177-P104 or 5177-P103 memory	102,790	3,611	596
5177-0103	N-8355 Basic System; includes CPU, four trunks, extended addressing logic, 64-KB core memory, 300-lpm line printer, 60-MB disk unit; max. 128K bytes memory (to expand memory above 64K, requires 5177-P109 Auxiliary Cabinet and 5177-P104 or 5177-P103 memory)	136,260	4,365	524
5177-0103	N-8356 Basic System; includes CPU, four trunks, extended addressing logic, 64-KB memory, 600-lpm line printer, 60-MB disk unit; max. 128K bytes memory (to expand memory above 64K, requires 5177-P109 Auxiliary Cabinet and 5177-P104 or 5177-P103 memory)	150,765	4,930	564
5177-0104	N-8357 Basic System; includes CPU, four trunks, extended addressing logic, 96-KB core memory, 600-lpm line printer, 96-MB disk unit, max. 128K bytes memory (to expand memory above 64K, requires 5177-P109 Auxiliary Cabinet and 5177-P104 or 5177-P103 memory)	163,255	5,770	611
5177-0104	N-8358 Basic System; includes CPU, four trunks, extended addressing logic, 96-KB core memory, 1100-lpm train printer, 96-MB disk unit; max. 128K bytes memory (to expand memory above 64K, requires 5177-P109 Auxiliary Cabinet and 5177-P104 or 5177-P103 memory)	168,850	6,190	819
5177-0102	N-8359 Basic System; includes CPU, two trunks, 64K bytes core memory, 150-lpm line printer, 9.8-MB disk unit; max. 128K bytes memory (to expand memory above 64K, requires 5177-P109 Auxiliary Cabinet and 5177-P104 or 5177-P103 memory)	81,775	2,665	515

MAIN MEMORY

5177-P102	32K to 64K bytes memory expansion (for N-8351, N-8352)	6,000	230**	24
5177-P103	64K to 96K bytes memory expansion; required to expand memory for N-8353/55/56/57/58/59 systems; requires 5177-P117 extended addressing logic and 5177-P109 auxiliary cabinet	6,000	230	12
5177-P104	96K to 128K bytes memory expansion; required to expand memory for N-8353/55/56/57/58/59 systems	6,000	230	12

SYSTEM OPTIONS

5177-P110	Multiply/Divide	4,500	125**	11
5177-P112	Logic Command	2,350	60**	0
5177-P113	Time of Day Clock	1,125	45**	6
5177-P114	Software Initiated Alarm	400	10**	2
5177-P115	Remote Audible Alarm	800	20**	1
5177-P116	Extra Loud Alarm	800	20**	1
5177-P111	Common Trunks 1 and 6	4,500	125**	11
5177-P117	Extended Addressing Logic; required for 5177-P103 memory expansion	4,000	60	0
5177-P118	Trunks 1 and 6; required for 5177-P117 addressing logic	5,625	170	11
7620-P101	Dual Cassette Upgrade	1,340	55**	11
5177-P109	Auxiliary Cabinet	800	30	0
0649-P300	300-lpm Printer Upgrade	8,850	520	0

* Rental prices include maintenance.

**May not be rented on an N-8352 system.

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EQUIPMENT PRICES

SYSTEM OPTIONS (Continued)

Printer Substitutions (negative prices indicate deductions from the system price):

	Purchase Price	Monthly Rental*	Monthly Maint.
Change 150-lpm printer to 300-lpm printer	8,850	520	0
Change 150-lpm printer to 450-lpm printer; requires 0626-0821 printer controller	12,200	312	-22
Change 150-lpm printer to 600 lpm printer; requires 0626-0821 printer controller	20,285	877	15
Change 300-lpm printer to 150-lpm printer	-8,850	-520	0
Change 300-lpm printer to 450-lpm printer; requires 0626-0821 printer controller	3,350	-208	-22
Change 300-lpm printer to 600-lpm printer; requires 0626-0821 printer controller	11,975	357	15
Change 300-lpm printer to 1100-lpm printer	20,100	503	266
Change 600-lpm printer to 150-lpm printer	-23,355	-1,197	-52
Change 600-lpm printer to 300-lpm printer; requires 0626-0821 printer controller	-14,505	-677	-52
Change 600-lpm printer to 450-lpm printer	-8,625	-565	-37
Change 600-lpm printer to 1100-lpm printer	5,595	-174	214
Change 1100-lpm printer to 600-lpm printer; requires 0626-0821 printer controller	-5,595	-326	-214
0626-0821 Printer Controller	2,530	320	37
0646-P300 300-lpm Printer Upgrade	8,850	520	0

MASS STORAGE

0656-0834 9.8-MB Disk Drive (2 spindles); required to expand 656 disk subsystem to 39.2 MB (8 spindles)	12,500	468	105
0656-0832 9.8-MB Disk Drive with dual disk attachment; required to expand 556 disk subsystem to 39.2 MB (8 spindles)	12,950	488	109
0625-0842 Disk Controller for 656 disks; required for 4 spindles	4,000	153	35
0657-0831 60-MB Disk Drive	24,980	840	119
0657-0832 96-MB Disk Drive	24,980	840	119

INPUT/OUTPUT UNITS

0633-0837 7-Track NRZ Magnetic Tape Unit, 10/28/40 KBS	7,970	340**	84
0633-0839 9-Track NRZ Magnetic Tape Unit, 40 KBS	8,900	375**	84
0624-0839 9-Track NRZ Control, 40 KBS	8,845	315**	26
0624-0879 7- & 9-Track NRZ Control for 0633-0837/9 Magnetic Tape Units	9,000	320**	26
0633-0831 9-Track PE Magnetic Tape Unit, 80 KBS, for N8353/5/6/7/8/9 Systems	7,340	328	86
0633-0832 Dual 9-Track PE Magnetic Tape Unit, 80 KBS, for N8353/5/6/7/8/9 Systems	11,325	587	128
0633-0833 9-Track PE Magnetic Tape Unit, 144 KBS, for N8353/5/6/7/8/9 Systems	10,250	503	86
0633-0834 9-Track PE Magnetic Tape Unit, 240 KBS, for N8353/5/6/7/8/9 Systems	11,500	553	86
0624-0831 PE Magnetic Tape Controller for 0633-0831 or 0633-0832 Magnetic Tape Units	10,200	443	29
0624-0833 PE Magnetic Tape Controller for 0633-0833 Magnetic Tape Unit	12,075	518	29
0624-0834 PE Magnetic Tape Controller for 0633-0834 Magnetic Tape Unit	13,325	568	29
0684-0101 Card/Read Punch, 500 cpm read, 100-460 cpm punch	25,830	660**	279
0960-0852 Print Train, 52-character, for 0646-0831 Printer	2,950	118	0
0960-0857 Print Train, 57-character, for 0646-0831 Printer	2,950	118	0
0960-0864 Print Train, 64-character, for 0646-0831 Printer	2,950	118	0
0960-0896 Print Train, 96-character, for 0646-0831 Printer	2,950	118	0
0260-0831 Receive-only thermal printer; includes power supply and switch	2,495	90*	15
0675-0101 MICR Reader/Sorter	58,000	1,350**	425

COMMUNICATIONS

All communications packages include an integrated communications controller and multiplexer with two adapters

0621-0202 Synchronous Communications Controller and Multiplexer with 2 adapters	6,125	230	67
0621-P204 Synchronous Adapter Upgrade; permits 2 to 4 adapters	2,445	295	18
0621-P206 Synchronous Adapter Upgrade; permits 4 to 6 adapters	2,150	145	18
0621-P208 Synchronous Adapter Upgrade; permits 6 to 8 adapters	2,150	145	18
0621-0204 Synchronous Communications Controller and Multiplexer with 4 adapters	8,570	520	80
0621-0112 Asynchronous Communications Controller and Multiplexer with 2 adapters	4,500	230	67
0621-0114 Asynchronous Communications Controller and Multiplexer with 4 adapters	6,000	365	80
0621-P116 Asynchronous Adapter Upgrade; permits 4 to 6 adapters	1,500	141	19
0621-P118 Asynchronous Adapter Upgrade; permits 6 to 8 adapters	1,500	100	18
0695-0806 Auto Dialer	1,600	60	11

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