



# 7780

Mid-Range Item Processing Transport

The robust, reliable solution... for processing varying volumes in any environment

# If you require an Item Processing Transport that...

- is a proven performer, accounting for 65% of the installed base in the world in its class
- delivers high reliability when you need it the most
- fits the NCR Banking Architecture providing a cohesive, enterprise-wide solution
- helps you move into business-enhancing applications with powerful imaging functions
- offers the latest in award-winning ergonomic design
- provides a modular hardware design and open software architecture to deliver top imaging performance in a wide variety of environments
- offers the widest choice of Solution Partner applications in the Item Processing industry
- is supported by NCR customer service with over 20 years of item processing experience





## The Preferred, Proven Item Processing Transport

The NCR 7780 is the preferred conventional and image item processing transport for a wide range of processing volumes and environments. This proven member of the NCR scalable family of transports addresses many item processing needs—from meeting full feature functionality requirements to tight processing windows, the 7780 is the best in its class.

Built for ease of use with dependable long-term performance, the 7780 supports over 25 Solution Partner applications as well as NCR's proven Enhanced Item Processing Software (EIPS). With this ideal combination of software and hardware, NCR offers a Year 2000 compliant processing solution that's easily tailored to your precise needs.

The Multi-Purpose Platform 7780 is a key component within the NCR Item Processing Strategy. It was designed from the bottom up by our engineers to meet the imaging needs of the future. The 7780's modular, reliable and flexible design provides advanced, affordable imaging and recognition and conventional technologies which improve productivity for item processing operations. NCR is continually investing in this platform to ensure that it maintains market leadership and serves financial and non-financial institutions today and in the future.

## Delivering an Item Processing Strategy to Meet Your Needs

As the volume of paper-based transactions that must be processed quickly and accurately continues to rise, and as customers demand more and better products and services, financial institutions are turning to NCR for solutions. NCR's Item Processing Strategy provides exciting opportunities to deliver distinctive, new, revenue-generating services while increasing productivity and reducing costs.

At the foundation of this strategy, NCR's family of scalable transports provides proven item processing solutions for a wide range of volume requirements. To ensure maximum application flexibility, an NT-based common operating environment—Windows Integrated Services Environment for Item Processing (WiseIP)—will be implemented across the full range of transports. This open systems architecture will ensure NCR's transports also offer application compatibility, portability and choice through NCR and its many Solution Partners.

Explore all your item processing options with the complete suite of conventional and image-based applications provided by NCR and its Solution Partners:

- Proof of Deposit
- Remittance Processing
- ATM Balancing
- Return Item Processing
- Reject Repair
- Image Archive and Delivery.

Let us share with you our vision for a fully integrated image item processing solution.

## Why NCR?

When confronted with fierce competition, rapidly changing technology and the pressures of globalization, you need a business partner with the knowledge, products and vision to bring it all together in one seamless solution.

NCR has been providing trusted solutions to the financial services industry for over 75 years. We're a world leader in Financial Delivery Systems, Customer Management Solutions, Data Warehousing, Payment Systems and Item Processing. We're also the world's foremost provider of image-based item processing solutions, with over 400 image item processing sites in operation worldwide.

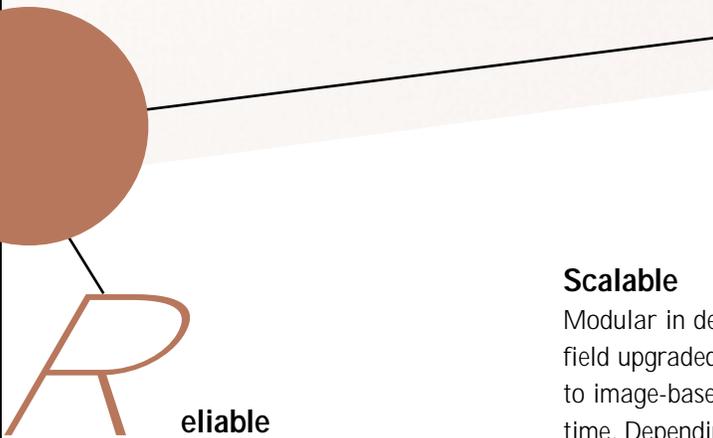
Within the context of our overall strategy for an enterprise-wide banking architecture, we offer a complete family of transports, we have developed our own imaging applications and we work with over 40 Solution Partners providing conventional and imaging solutions to meet a full range of customer needs.

Through NCR Professional Services, you gain access to our expertise and experience in planning and implementing image item processing solutions. We can help plan your overall processing strategy, identify the role of imaging technology, determine your point of entry into imaging solutions and map out your migration path from other systems.

NCR has the right solutions and services, at the right price, when and where you need them.

...then you need the 7780 from NCR!

# Reliable ... Scalable ...



**R**

## eliable

In recent industry customer satisfaction surveys, NCR customers overwhelmingly rank the 7780 as the most reliable transport in the market. From feeder to pockets, the 7780 has been engineered for minimum maintenance and maximum availability. Regardless of the configuration, it operates at optimum capacity day after day—down time is virtually non-existent.

Design features of the 7780, such as the straight-line, open track and quick-release mechanisms in each module, minimize jams and allow for quick recovery of jammed documents. State of the art fiber-optic sensors all along the track provide complete document control, which further speeds recovery and reduces transport down time.

The 7780 delivers more than performance. The modern design and use of industry standard open systems architecture promise lower solution support and training costs. This, combined with minimal down time, keeps the cost per item low, which maximizes your return on investment.

## Scalable

Modular in design, the 7780 can be field upgraded easily from conventional to image-based item processing at any time. Depending upon your needs, you can choose either 300 dpm or 500 dpm models to process from as few as 2,000 to as many as 1,000,000 items per day. Whether low-speed or high-speed, the 7780 can be factory configured to read your choice of industry standard MICR and OCR fonts. If your volume outgrows a low-speed transport you can conveniently upgrade it in the field to a higher-speed transport.

When your needs change, you can also increase the functionality of your 7780 simply by adding features. You can enhance your transport with a High-Speed Endorser, a High-Speed Encoder, a Microfilmer and an Imaging module. Just as easily, you can expand its sorting capacity by adding Pocket modules.

Whatever your processing environment, the scalable 7780 can be upgraded to suit your needs—all with minimal disruption to your productivity.

## Versatile

The 7780's multi-functionality in back office item processing has made it the transport of choice with our customers. Deploy the 7780 for use in Remittance Processing, Return Item Processing, Reject Repair, ATM Balancing and POD.

NCR's open architecture gives you unparalleled flexibility in combining application software with your 7780. Regardless of transport speed, the common platform allows multiple applications to coexist on the 7780. With the simple addition of an imaging module, you can capture, and transmit image item data to use throughout your institution for archival or revenue-generating services.

Flexibility is the cornerstone of the 7780's hardware architecture. The 7780 can meet virtually any processing need you have: image or conventional processing; magnetic or optical reading; low-speed or high-speed endorsing; downstream or upstream image capture; conventional microfilm or image archive.

The 7780's versatility makes it the hands down favorite when combined with the wide array of imaging solutions available from both NCR and its Solution Partners.



# Versatile

## Choice of Features

Designed with flexibility in mind, the 7780 lets you choose the exact combination of features to suit your precise item processing requirements.



## Reading

The 7780 reader module is available in either MICR, OCR, Dual MICR or MICR/OCR combinations. The MICR readers can read either one or two lines of characters in either E13B or CMC7. The OCR readers can read up to three lines of characters in 10 different fonts (up to 3 fonts per document).

## Workstation

The 7780 can be configured as either a "stand-up" or "sit-down" workstation. The stand-up design is especially suited for operators who attend the hopper and pockets with minimal keying. Alternatively, the sit-down design enables the 7780 to support operator needs for keyed data entry.

## Document Feeding

The standard automatic document feeder holds up to 1,200 documents of mixed height and length and includes a hand-drop feeder so that documents can be hand fed into the document stream. An optional merge hopper or journal printer are also available.

The optional higher-performance hopper (as shown in the photo), with a 2,500 document capacity, incorporates double-feed detect technology, short item outsort capability, a merge hopper and a hand-drop feeder to increase transport throughput by decreasing misfeeds, jams and interrupts.



Depending on the configuration ordered, the unit may not be exactly as shown.



### Encoding

Choose either the low-speed or high-speed encoder options available on the 7780. The low-speed encoder module uses our patented and proven 100 dpm thermal encode technology capable of encoding OCR-A, OCR-B, E13B or CMC7 fonts. The high-speed module uses our proven 400 dpm impact technology capable of encoding E13B or CMC7 fonts. Both units have multi-field encoding capability.



### Sorting

Choose from one to 10 pocket modules, each of which contains four separate pockets. Optional pocket lister printers are also available.

### Microfilming

The conventional unit microfilms the front and back of items simultaneously at track rated speed. For control purposes and automatic retrieval system use, the microfilmer assigns and films segment header numbers and adds an ID number as well as an image count mark. Alternatively, the microfilmer can be replaced with downstream image capture technology which allows for image archival.

### Endorsing

Depending upon your needs, choose between NCR's low and high-speed programmable endorser technology. The low-speed dot matrix endorser can be configured as a rear dual-line endorser or as a front single-line endorser. Front and rear rotary stamps are available as an option. The fast and quiet high-speed ink-jet endorser prints 1 to 4 lines of standard size characters, or 1 to 2 lines of double size graphics characters to emulate impact or roll-on stamps. It is available for rear only printing or front and rear printing.

### Imaging

To provide maximum flexibility and choice, three image capture options are available: upstream where reading occurs; downstream after encoding and endorsing; or both. Upstream capture provides real-time recognition processing (CAR, Mark Sense, and OCR) while downstream capture offers image archival of fully processed items.

Both black and white (CCITT) and gray scale (JPEG) image compression formats can be captured, using a single camera in one pass. The quality of data capture is superb and the images take very little storage space. With both image formats, you can optimize image storage depending on your application requirements.



### Software Environment

NCR offers 7780 transport controller software that supports three operating systems: Windows NT, O/S2 and UNIX. This selection offers maximum flexibility, portability and choice through the wide range of NCR and Solution Partner applications.

## FEATURES

# 7780

7780-500 DPM

# 7780

7780-300 DPM

Transport Speed		
Document Feeder	500 documents per minute	300 documents per minute
Imaging Module	<p>Choose from:</p> <ul style="list-style-type: none"> <li>• Standard Auto Feed Hopper - Holds approximately 1,200 documents of varying heights, lengths and widths. Included is a hand-drop feeder for documents that will be hand fed into the document stream</li> <li>• Higher-Performance Hopper - Holds 2,500 documents and incorporates improved feed mechanics, double-feed detect technology, integrated merge hopper and short item outsort bin</li> </ul> <p>Optional Merge Hopper - Holds approximately 250 documents. Can feed one at a time to merge with documents from the standard auto feed hopper</p>	<ul style="list-style-type: none"> <li>• Standard Auto Feed Hopper - Holds approximately 1,200 documents of varying heights, lengths and widths. Included is a hand-drop feeder for documents that will be hand fed into the document stream</li> <li>• Optional Merge Hopper - Holds approximately 250 documents. Can feed one at a time to merge with documents from the standard auto feed hopper</li> </ul> <p>Higher-Performance Hopper - Not available on 300 dpm model</p>
Reader	<p>Choose from:</p> <ul style="list-style-type: none"> <li>• upstream and/or downstream image camera placement</li> <li>• front and rear image capture</li> <li>• black and white CCITT compression of images at 200 dpi</li> <li>• gray scale JPEG compression of images at 100 or 200 dpi</li> <li>• up to 2 image formats per camera</li> </ul>	<p>Choose from:</p> <ul style="list-style-type: none"> <li>• upstream and/or downstream image camera placement</li> <li>• front and rear image capture</li> <li>• black and white CCITT compression of images at 200 dpi</li> <li>• gray scale JPEG compression of images at 100 or 200 dpi</li> <li>• up to 2 image formats per camera</li> </ul>
Encoder	<ul style="list-style-type: none"> <li>• MICR: E13B and CMC7</li> <li>• OCR: OCR A/B numeric and alphanumeric, up to 10 fonts available (3 user defined zones)</li> </ul>	<ul style="list-style-type: none"> <li>• MICR: E13B and CMC7</li> <li>• OCR: OCR A/B numeric and alphanumeric, up to 10 fonts available (3 user defined zones)</li> </ul>
Endorser	<p>Choose from:</p> <p>1) Low-Speed</p> <ul style="list-style-type: none"> <li>• MICR: E13B &amp; CMC7, OCR A/B</li> <li>• 16 character positions</li> <li>• 100 dpm based on 6" documents (single path)</li> </ul> <p>2) High-Speed</p> <ul style="list-style-type: none"> <li>• MICR: E13B &amp; CMC7</li> <li>• 16 character positions</li> <li>• 400 dpm based on 6" documents (single path)</li> </ul>	<p>Low-Speed</p> <ul style="list-style-type: none"> <li>• MICR: E13B &amp; CMC7, OCR A/B</li> <li>• 16 character positions</li> <li>• 100 dpm based on 6" documents (single path)</li> </ul>
Microfilmer	<p>Choose from:</p> <p>1) Low-Speed</p> <ul style="list-style-type: none"> <li>• 230 dpm software programmable dot matrix endorser available in rear dual-line or front single-line configurations</li> <li>• up to 160 characters per document</li> <li>• up to two lines of compressed print</li> </ul> <p>2) High-Speed</p> <ul style="list-style-type: none"> <li>• 500 dpm software programmable ink-jet endorser available in rear, or front and rear configurations</li> <li>• up to 4 lines of standard print (up to 180 characters per document)</li> </ul>	<p>Low-Speed</p> <ul style="list-style-type: none"> <li>• 230 dpm software programmable dot matrix endorser available in rear dual-line or front single-line configurations</li> <li>• up to 160 characters per document</li> <li>• up to two lines of compressed print</li> </ul> <ul style="list-style-type: none"> <li>• Cinemode (duplex format)</li> <li>• Microfilms both sides of a document at track rated speed</li> <li>• Adds a 9-digit ID number plus an image count mark</li> </ul>
Pockets	<ul style="list-style-type: none"> <li>• 4 pockets per module</li> <li>• Pocket capacity: 300 documents</li> <li>• Add up to 10 modules for a total of 40 pockets</li> <li>• Optional lister printers</li> </ul>	<ul style="list-style-type: none"> <li>• 4 pockets per module</li> <li>• Pocket capacity: 300 documents</li> <li>• Add up to 10 modules for a total of 40 pockets</li> <li>• Optional lister printers</li> </ul>



# SPECIFICATIONS

# 7780



## PC Controller

(minimum)

- P166 MHz Pentium PC
- 48MB Memory
- 2GB hard drive
- CD-ROM drive
- 1.44 MB 3.5" floppy drive
- Keyboard, mouse and VGA 17" color monitor

## Communications

- Standard SCSI-2 interface

## Required Software

- 7780 Base System Software

## Software Environment

Depending on the application, the transport controller software can support one of the following operating systems:

- Windows NT
- O/S2
- UNIX

## Application Software

Specific software applications are available through NCR and its Solution Partners. These applications include: POD, Image Archive, Remittance Processing, Reject Repair, Return Items, and ATM Balancing.

## Power Requirements

The transport will obtain all electrical power from a single phase power source.

	Frequency	
	50 Hz	60 Hz
Volts AC	100	100
	127	120
	200	127
	220	200
	230	208
	240	240

## Physical Characteristics

	Width		Depth		Height Sit-Down		Height Stand-Up	
	cm	inches	cm	inches	cm	inches	cm	inches
Console *with Higher-Performance Hopper	188 *226	74 *89	71	28	95	38	109	43
Pocket Module	44.3	17.4	70.8	28	86	34	98	39
Microfilmer	45.7	18	73.7	29	93.85	37	106.55	42
Endorser	35.5	14	70.8	28	86	34	98	39

Note: \*The Higher-Performance Hopper can only be added to a stand-up unit.

## Weight

Typical example would be:

Module	Sit-Down		Stand-Up	
	Kilograms	Pounds	Kilograms	Pounds
Console *with Higher-Performance Hopper	277	610	286 *309	644 *680
Pocket Module	45	98	49	108
Microfilmer	111	245	117	258
Endorser	53	115	55	120

## Document Dimensions

The transport is capable of handling documents that meet the following criteria:

	Minimum		Maximum	
	inches	mm	inches	mm
Length	4.75	121	8.8	225
Height	2.5	65	4.8	123
Length to Height Ratio	3:2		3:1	
Thickness	0.003	0.075	0.0075	0.190

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