



SCANTEAM[®] 2000/R Series

POS Interface

Bar Code, Magnetic Stripe & MICR Interface

The SCANTEAM[®] 2000 Series is a versatile, compact and rugged interface which adds bar code, mag stripe and MICR automatic data entry capability to IBM, NCR, Fujitsu, Nixdorf and other popular POS terminals, PCs and CRT terminal-based systems. The ST2000 supports keyboard wedge, parallel (OCR), single and dual port serial RS-232, OCIA and IBM 4680 synchronous interfaces.

The two scanner ports accept all types of hand held bar code scanners including Hand Held Products SCANTEAM Series solid state lasers, contact wand scanners, the ST3400 CCD scanner, and the ST8300 MICR check reader. Dual or triple track credit card data input from the ST6901 is via the MSR port; RS-232 data input is via a bidirectional auxiliary port.

The ST2000 Series is fully programmable, allowing data input to be formatted according to an application's program definitions. Its advanced data formatting capability and universal design protects against obsolescence.

The SCANTEAM[®] 2000 Series, which interfaces to most POS and mainframe terminals, as well as PC systems, enhances productivity and increases accuracy in a wide variety of retail applications. Sales data is quickly and accurately collected, increasing customer satisfaction and enhancing the retailer's competitiveness. In the "back room," in-store and distribution center receipts are quickly reconciled, reducing shortages and time in the receiving cycle.

Data format and FLASH E²PROM firmware can be field programmed via bar code menu, cloned, or factory set to ensure compatibility with applications, now and in the future. The RS-232 port allows input from in-counter or presentation style scanners, portable data collectors, MICR check readers and PIN pads with full edit capability. Mag stripe data from tracks 1, 2, and 3 can be selected/edited to meet credit card issuer requirements, now and as they change. MICR data can be edited to meet the requirements of a check authorization system.

Features & Benefits

Universal Interface for POS, Computer Terminals and PCs

Provides bar code, mag stripe and MICR input to existing terminals and an upgrade path which protects against obsolescence.

Data Capture from a Variety of Devices

Easy integration of all types of data collection for most terminals and PCs. Data capture for bar code, triple track magnetic stripe and MICR from checks, and RS-232 devices.

Programmable Data Formatting

Bar code, mag and MICR output can be formatted to match multiple terminal programs and protocols.

ASIC and FLASH E²PROM

In-field firmware changes do not require chip changes. New code is loaded into the ST2000's FLASH memory through the aux interface connector.

Compact Size

Smaller footprint maximizes work station space.

Mechanical/Electrical

Dimensions

Weight:	6.4 oz. (181.4g)
Height:	1.0 in (2.5 cm)
Length:	4.0 in. (10.2 cm)
Width:	3.9 in. (10.0 cm)
Enclosure:	Lexan®, a G.E. Polycarbonate thermoplastic; UV stabilized
Color:	Pearl White

Power Requirements

Electrical:	Complies with UL, CSA, and VDE
Power Supply Options:	+5V supplied from the terminal or optional power supply, which may be required in some cases.
Output:	+5VDC
Current Draw:	2000/R 150mA typical; 2000/C 140mA typical
Connectors:	Scanner Ports (2): 9 pin D male, squeeze-to-release Magnetic Stripe Port: 8 pin modular Power: 4 pin Mini-Din I/O: 40 pin high density

Environmental

Temperature	
Operating:	32°F to 104°F (0°C to 40°C)
Storage:	-40°F to 212°F (-40°C to 100°C)
Humidity:	0% to 95% non-condensing
Shock:	Functions normally after ten 3 ft. drops onto a concrete surface
EMI Radiation:	FCC Class A and *EN55022 Class B (1988)
ESD Sensitivity:	Meets *IEC 801-2; 1991/1984 and a minimum of 300 discharges at 2.5kv intervals from 2.5kv to 17.5kv.
Radiated Susceptibility:	Meets *IEC 801-3; 1984
Electrical Fast Transients:	Meets *IEC 801-4; 1988

*NOTE: These requirements combined with EN50082-1; 1992 indicate conformity to the EMC Directive 89/336/EEC.

Interfaces

Parallel (OCR):	All IBM, Fujitsu, others
OCIA:	NCR short and long format, Nixdorf, others
IBM:	4683/4; Port 5B, 9B and 17
Keyboard Wedge:	POS: NCR 2151, 2152, 2154/55, 2950, 7052; IBM 3653, 3683/4 and others PC: IBM PC/XT/AT, PS/2 and compatibles Terminals: IBM 3151, 316X, 319X, 347X IDEAS, X77, 276, I/O 88/122 and others
Serial:	Bidirectional RS-232 serial or serial wedge
Input Devices:	Hand Held Products laser, CCD and wand scanners, ST6901 dual or triple track magnetic stripe reader, ST8300 MICR check reader, RS-232 (input), other industry standard devices.
Data Format:	Full user programming for data edits including multiple formats within symbologies, Mag Stripe Tracks 1, 2, and 3 and MICR data.
Programming:	Bar code menu, PC download, clone mode, factory
Parameter Selections:	Data edit with cursor control, search, insert, delete, locate, fill, truncate, and delimiters for all inputs. Terminal type and port, keyboard style and function keys, RS-232 protocol. MICR data parsing including transit, account and check number.
Symbologies Decoded:	UPC E, A, EAN, ISBN all versions with supplement suppression, Codes 3 of 9, 128, 12 of 5, 2 of 5, Matrix 2 of 5, 11, 93, MSI, Plessey, Codabar

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