



SCANTEAM[®] 6980 Series RS-232 Magnetic Stripe Card Reader

The SCANTEAM[®] 6980 product is a dual track Magnetic Stripe Card Reader (MSR) designed to attach to devices with an RS-232 serial interface port. All magnetic stripe decoding electronics are contained in the compact ST6980 product enclosure.

The ST6980 is a bi-directional card reader; it can read cards swiped in either direction. A beeper indicates a good read or bad read to the operator. The ST6980 is powered by an external power pack device. Other versions are available which accept input power through the DB-9 host connector.

The ST6980 is easily attached to host devices in two simple steps. First, attach the ST6980's DB-9 interface connector to the host device RS-232 port, securing the connector in place using the finger grip retaining screws. (For certain applications, the use of commercially available DB-25 to DB-9 and gender changer adapter plugs may be required.) Second, attach the source of external power to the ST6980. This may be the external 5VDC power pack, or the host system's +5VDC power supplied on a 2.1mm barrel connector.

The ST6980 offers a fast, easy and accurate method for entering data contained on a magnetic stripe into a PC system. Retail POS credit and debit account number entry, bank teller automation, driver's license ID verification, membership ID verification, access control, work in process data entry, labor and job tracking, and tool and equipment sign out are just a few of the applications for the ST6980.

Features & Benefits

Compact Size

Mounts easily on keyboard or any flat surface.

Serial RS-232 Interface

Interface is compatible with PC industry standard RS-232 serial I/O ports. No modifications to PC systems are usually required to add magnetic stripe reading capability.

Bi-directional Card Read

Ease of use, reduces training time, allows greater flexibility in mounting devices.

Provides Full Track Data

Allows users to take advantage of financial networks' incentive and discount programs which require the transmission of full track information.

Programmability

Supports user accessible DIP switch settings and downloaded configuration commands.

Audible Alarm and Display

Provides feedback to operator to indicate good read or bad read.

Track Enable/Disable

Allows user to enable or disable data tracks.

Reads High and Low Coercivity Cards

Reader will not need to be replaced in order to read new high coercivity financial cards.

Performance

- Recording Method:** Two-frequency coherent phase (F2F), high or low coercivity magnetic media, compatible with ISO 3554.
- Swipe Speed:** Card speed through unit may vary from 5 to 50 inches per second (127 to 1270 mm/sec) for track two data encoded at 75 bpi, or for track one or track three data encoded at 210 bpi. Tolerates $\pm 12\%$ jitter encoded in card.
- Data Format:** Serial ASCII data, 8 bit, no parity, 9600 bps default setting. Other configurations selectable via dip switch settings.
- Output:** Data read from magnetic stripe card is transmitted to the host system as serial RS-232 data
- Magnetic Head Life:** 300,000 passes minimum (longer life version available - consult factory)

Mechanical/Electrical

Dimensions

- Weight:** 10.6 oz. (300g)
- Height:** 1.67 in. (4.24cm)
- Length:** 3.94 in. (10.0cm)
- Width:** 1.34 in. (3.40cm)

Power Requirements:

- ST6980-1:** Power supplied by external +5VDC, 60mA power. 120 VAC Power Pack included.
- ST6980-3:** Power supplied by external +5VDC, 60mA power. Power Pack not included.
- Connector:** 9 pin D subminiature with molded-in power jack, female socket type.
- Connector Pin Out:** Pin 2 - Data Out Pins 1, 4, 6 - Shorted together
Pin 5 - Ground Pins 7, 8 - Shorted together
Pin 9 - No Connection

- Cable Length:** 5 ft.

Environmental

Temperature

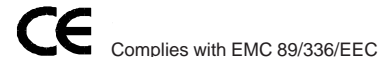
- Operating:** 14°F to 122°F (-10°C to 50°C)
- Humidity:** 10% to 90% relative humidity
- Agency Conformance:** Complies with FCC Class A.
- CE:** The system has been tested to and conforms with the provisions within 89/336/EEC, Electromagnetic Compatibility directive (EMC).

Model	Mag Tracks	Connector
ST6980-1	Dual; 1 and or 2	DB-9F with molded-in power jack. Includes 120V power pack.
ST6980-3	Dual; 1 and or 2	DB-9F with molded-in power jack. No power pack included.

Consult factory for additional configurations

Data Format - Dual Track	Items in brackets [] are optional
[STX][SS]<TRACK 1 DATA>[ES][CHECKSUM][DLE]	SS = Start sentinel % Track 1 for ISO, DMV, AAMVA
[STX][SS]<TRACK 2 DATA>[ES][CHECKSUM][ETX]	; Track 2 for ISO, DMV, AAMVA
STX = Start text	; Track 3 for ISO
DLE = Data link escape	% Track 3 for AAMVA
ETX = End text	! Track 3 for DMV
	ES = End sentinel ? Track 1, 2, & 3 for ISO, DMV, AAMVA

Custom Designed Card Readers Are Available Upon Request



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