



# SCANTEAM® 6920 Series PC Wedge Interface Magnetic Stripe Card Reader

The SCANTEAM® 6920 Magnetic Stripe Card Readers (MSRs) attach to PCs through a keyboard wedge interface.

The magnetic stripe data transmitted by the ST6920 emulates keyboard data input. For many applications, no PC program modification is required to input data from the ST6920. The ST6920 is a bi-directional card reader. A beeper and LED indicate a good read or bad read. Three versions of the ST6920 are available:

- ST6920-1:** Track 1 & 2 MSR, PC XT-AT-PS/2 Interface, XT/AT Circular DIN Type Connectors
- ST6920-3:** Track 1 & 2 MSR, PC XT-AT-PS/2 Interface, PS/2 and AT Clone Mini DIN Type Connectors
- ST6920-5:** Track 1, 2 & 3 MSR, PC XT-AT-PS/2 Interface, PS/2 and AT Clone Mini DIN Type Connectors

The ST6920 draws all power from its keyboard interface cables, and thus does not require an external power pack.

The ST6920 offers a fast, easy, and accurate method of 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 possible applications for the ST6920.

## Features & Benefits

### **Compact Size**

*Mounts easily on keyboard or any flat surface. Velcro™ mounting kit included.*

### **Keyboard Wedge Interface**

*No hardware or software modification to PC system required to add magnetic stripe reading capability.*

### **Powered by PC Keyboard Port**

*No external power pack required.*

### **Provides Full Track Data**

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

### **Audible Alarm and Display**

*Provides feedback to operator to indicate good read, or error via beeper and bi-color LED.*

### **Programmability**

*Supports host keyboard initiated and user accessible DIP switch settings.*

### **Driver's License Reading (ST6920-5 only)**

*Auto-discriminates between California DMV, AAMVA, and ISO bank card data formats encoded on track 3.*

### **Track Enable Disable**

*Allows user 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 ±12% jitter encoded in card.
- Output Data Format:** Data read from magnetic stripe card is transmitted to the computer as though entered at the keyboard. See Data Format table below.
- Configuration Options:** Contains an 8 position DIP switch which allows users to select to suppress or include <CR> between and after track data and <SS> and <ES> codes.  
Includes user programmable prefix and suffix character transmission before and after each track, or before and after total data message.

## 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** Reader is low power CMOS. Power is supplied by the computer to operate the reader. Current draw 50mA @ +5VDC maximum.

**Supported Interfaces** XT, AT, PS/2 Models 25, 30, 50 & 70

**Cable Length:** From card reader to keyboard, approx. 1 ft. From card reader to computer, approx. 5 ft.

**Connectors:** Available with full size circular DIN or Mini-Din

**Magnetic Head Life:** 300,000 passes minimum (longer life version available - consult factory)

## Environmental

**Operating Temperature:** 14°F to 122°F (-10°C to 50°C)

**Operating 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	Interface Connector Compatibility
ST6920-1	Dual; 1 and or 2	XT/AT, PS/2 - Full Size Circular DIN
ST6920-3	Dual; 1 and or 2	XT/AT, PS/2 - Mini-DIN
ST6920-5	Triple; any combination of 3 tracks	XT/AT, PS/2 - Mini-DIN

Consult factory for additional configurations

Items in brackets [ ] are optional

Dual Track  
[PREFIX][SS]<TRACK 1 DATA>[ES][SUFFIX][CR]  
[PREFIX][SS]<TRACK 2 DATA>[ES][SUFFIX][CR]

SS = Start sentinel % Track 1 for ISO, DMV, AAMVA  
; Track 2 for ISO, DMV, AAMVA  
; Track 3 for ISO  
% Track 3 for AAMVA  
! Track 3 for DMV

Triple Track  
[PREFIX][SS]<TRACK 1>[ES][SUFFIX][CR]  
[PREFIX][SS]<TRACK 2>[ES][SUFFIX][CR]  
[PREFIX][SS]<TRACK 3>[ES][SUFFIX][CR]

ES = End sentinel ? Track 1, 2, & 3 for ISO, DMV, AAMVA  
CR = Carriage Return

**Custom Designed Card Readers Are Available Upon Request**



Complies with EMC 89/336/EEC

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