



Magnetic Stripe Card Readers & Writers

TTL READER

MCR Series

The MCR Series are undecoded TTL reader. The TTL readers are designed with low power CMOS for TTL interface.

The readers are offered, as pictured, with or without cover. Available for single, dual and triple track configurations.

KEYBOARD WEDGE READER

MSR-400 Series

The compact readers can fit on the PC keyboard. The readers are with built-in decoder, offered with cables to connect to the keyboard and to the PC XT/AT/PS/2 and compatibles. Data sent from the reader emulates keyboard data, so no need to modify hardware and software.

The keyboard type, language and output data format are selectable by dip-switch setting.

External power is not required.

Available for single, dual and triple track configurations.

RS-232 READER

MSR-500 Series

The compact RS-232 readers are with built-in decoder, transmit data in ASCII code.

The readers draw power either from an external source or through the RS-232 port on the system.

The communication parameters are selectable by dip-switch setting.

Available for single, dual and triple track configurations.

CARD WRITER/READER

MSE-600 Series

The Card Writer/Reader are compatible with ISO 7811/2, 7811/4, 7811/5 for reading and encoding data in track 1, track 2 and track 3 that exist in Magnetic Stripe.

Provide RS-232 interface to host, and built-in high level serial interface command set. Easy to use.

Available for single, dual and triple track configurations.

SPECIFICATIONS

TTL READERS

Recording Method	Two-frequency coherent phase (F2F) Compatible with ISO 7810/7811/7812/7813, JIS X6301/6302
Power	Single Track +5VDC ± 5% 2.5mA Dual Track +5VDC ± 5% 4.7mA Triple Track +5VDC ± 5% 7.0mA
Output	V _{ol} (Max) = 0.4V At I _{OL} = 2mA V _{oh} (Min) = V _{DD} - 0.4V At V _{DD} = Min
Dimensions (Two Versions)	100mm (L) × 28mm (H) × 34mm (W)(With Cover) 90mm (L) × 24mm (H) × 22mm (W)(Without Cover)
Wire Length	210mm (Without Cover) 560mm (With Cover)
Connector	Single Track : 5 Pin or 7 Pin Housing Dual Track : 7 Pin Housing Triple Track : 10 Pin Housing
Configurations	Single Track : Track 1,2 or 3, JIS-II Dual Track : Track 1&2 or 2&3 Triple Track : Track 1&2&3

KEYBOARD WEDGE READER

Compatibility	PC AT/XT/PS2
Power	No External Power Requirements
Output	Emulates Keyboard Output
Dimensions	58mmL × 43mmW × 44mmH
Cables	1.5m From Reader To PC 30mm From Reader To keyboard
Connectors	5 Pin On Plug For PC 5 Pin On Socket For Keyboard
Configurations	Single Track : Track 1,2 or 3, JIS-II Dual Track : Track 1&2 or 2&3 Triple Track : Track 1&2&3

RS-232 READER

Power	+5VDC ± 20% 25mA (RS-232 Port) 15mA No Card Present (Typical) +9VDC 25mA (DC Adapter) 15mA No Card Present (Typical)
Output	Baud Rate 1200/2400/4800/9600/19,200
Dimensions	58mmL × 43mmW × 44mmH
Cable	1.5m
Connector	9 Pin D-Sub RS-232 (Female)
Configurations	Single Track : Track 1,2 or 3, JIS-II Dual Track : Track 1&2 or 2&3 Triple Track : Track 1&2&3

CARD WRITER/READER

Power	+12VDC ± 10%, Read : 250mA (Typ.), 370 mA (Max) Write : 750mA (Max) Write Triple Track : 600mA Write Dual Track : 550mA Write Single Track : 420mA
Output	Baud Rate 9600, 8 bit Character, Non-Parity
Dimensions	200mm (L) × 55.5mm (H) × 59mm (W)
Cable	5 Ft (1.5m)
Connector	DB-9 Female
Card Density	Encoding/Decoding : 75 ~ 210 BPI
Configurations	Single Track : Track 1,2 or 3, JIS-II Dual Track : Track 1&2 or 2&3 Triple Track : Track 1&2&3
Encoding Energy	300 Oersted
Recording Capability	Track 1 (TATA): 79 characters Track 2 (ABA): 40 characters Track 3 (THRIFT): 107 characters JIS-II : 69 characters