



MR350 Online Data Collection Terminal

The MR350 is a programmable, rugged and versatile data collection terminal. It is designed to meet the requirements of Time & Attendance, Loyalty Programs and Work-In-Process applications. Memory configurations with up to 512KB allow it to work online or to store transactions locally. Multiple I/O ports and interfaces make it the ideal solution for complex systems. The durable keypad is user replaceable and can be customized according to a personalized design.

Simple application development

With a DOS-compatible operating system, developers can use industry standard C compilers to write sophisticated applications. There is no need to learn proprietary languages. Other software development tools include JobGen Pro, a menu-based transaction program generator.

A communication utility allows the user to transfer files and configure the terminal from the PC using a simple interface, and a DLL library for C, C++, Visual BASIC, Delphi and FoxPro is also available at no charge.

Convenient slot reader

The MR350 features a built-in swipe slot, which can accommodate an optional bar code, magnetic stripe or proximity readers. This permits the user to choose the technology that results in a cost-efficient system. In addition to the slot readers, the MR350 primary and secondary scanner ports accept wand, CCD and laser readers, which are often required in shop floor control solutions.

Online Terminals

Available accessories:

- Bar code slot reader (built-in or external).
- Single track magnetic stripe reader (track 1, 2 and 3)
- Bar code scanner (CCD, wand, laser diode scanner and ID badge reader).
- Internal uninterruptible power supply.
- Desktop / workbench mount kit.
- RS232 to RS485 converter / repeater.
- T-Junction box.
- Internal modem.
- External Ethernet converter.
- JobGen Pro: An application generator for MR350/MR380 series.



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User friendly

The MR350 incorporates a large 2x16 backlit LCD. English and European character sets are supported. The four LEDs are controlled by software and a replaceable insertion keypad can be customized. All these features allow the development of intuitive, user-friendly applications. Furthermore, the optional internal UPS and standard lithium backup battery ensure that data is not lost during a power failure and while the terminal is turned off.

In addition, there is a tamper-proof alarm that will sound off when a person opens the terminal without the security key.

Wide range I/O interfaces

Two serial ports enhance the connectivity options. Host communications use either the RS232 port for point to point or RS485 for multi-point networks, which can have up to 256 terminals. A serial to Ethernet converter permits local area networking.

An optional internal modem is also available to connect with remote locations.

Two relays and four photo-coupler inputs enable external device activation and detection of events. All external devices can be connected to the unit's Dsub and RJ connectors or to its terminal block when the terminal is wall-mounted.

SPECIFICATIONS

GENERAL:	
CPU	NEC V25 Intel compatible microprocessor
RAM	128 / 256 / 512 KB.
ROM	DOS compatible operating system, Kermit server, setup and diagnostics
Keypad	20-key industrial membrane keypad with tactile feedback and 7 programmable function keys.
Display	2 X 16 backlit with US/European character sets.
Buzzer	Adjustable volume, software programmable.
DECODER:	
Scanner Port	Supports: wand, bar code slot reader, CCD, laser diode scanner, proximity reader (MSR interface) and single-track magnetic stripe reader
Symbologies	Code 39, Interleaved 2 of 5, EAN/UPC, CODABAR, Code 128
INTERFACE PORTS:	
Internal scanner port	6 pin flat connector
RS485	Dsub 9-pin male or terminal block
RS232	RJ11 or terminal block
Phone line	RJ11 or terminal block; for internal modem
ELECTRICAL:	
Input voltage	12V AC / 1A.
Operating current	220mA with backlit on, 85mA with backlit off, all accessories excluded.
Backup battery	3V lithium battery, 190mA, up to 15,000 hours of power down backup for RAM and system clock.
UPS battery	4 NiCd cells, 600mAH, charge current: 26mA constant current. Allows application to run up to 3 hours during power outage.
Two relay outputs	Terminal block connection
Four photo-coupler inputs	Terminal block connection
MECHANICAL & ENVIRONMENTAL:	
Dimensions	7.17 x 6.22 x 1.77 / 2.17" (182 x 158 x 45 / 55 mm) LxWxH
Weight	2.17 lb. approx. with UPS (980 g.)
Temperature	Operation: 0°C ~ 50°C (32°F ~ 122°F) Storage: -20°C ~ 70°C (-4°F ~ 158°F)
Humidity:	5 ~ 95% RH (non-condensing)
Housing:	ABS & Polycarbonate plastic front cover and metal back plate