

# MR650 Video T&A Terminal



The MR650 is a TAS (Time management, access control and security) terminal with a large, 240 by 320 pixels, color touch screen and the familiar interface of Windows CE operating system, users increase productivity right from the start, and application development is easier than ever. It is designed to meet the requirements of Time & Attendance, Loyalty Programs and Work-In-Process applications; it can communicate with a central host security and T&A system via standard Ethernet or WLAN networks. Or seize complete control over area security with the MR650's built-in CMOS digital camera, microphone, and audio speaker. Multiple I/O ports and interfaces make it the ideal solution for complex systems.

The MR650 features built-in variety readers such as proximity and fingerprint, this permits the user to choose the technology that result in a cost-efficient system. Powered by Windows CE.NET 5.0, the MR650 package includes programming tools and support software for developing custom security and T&A applications.

## Main Features

- Powered by WindowsCE.NET 5.0
- Large 240 by 320 pixel color display with touch screen
- Built-in bar code, MSR, proximity, HID or fingerprint reader
- Built-in 1.3 M pixels CMOS camera
- Speaker output, microphone input
- Three relay output controls (small size)
- Four TTL digital inputs (Optical input)
- Built-in UPS battery for 2 hours operation or 3 days data backup
- One CF type II card slot (3.3V only) for Wireless 802.11b/g
- POE, power over Ethernet



### Performance Characteristics

OS	WindowsCE.NET 5.0
CPU	PXA270 - 520MHz
RAM	128MB
FlashROM	64MB

### Proximity Card Input

EM	125 KHz
Mifare	13.56 MHz
HID	125 K

### Fingerprint Input

Sensor	Authentec AFS8500
Verification time	Maximum 2 seconds
Equal Error Rate	0.1% at medium security
Number of templates	4000

### Magnetic Stripe Input

Triple track MSR reader

### Bar Code Input

China Postal Code, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, Delta Code, Interleaved 2 of 5, ISBT 128, Label Code IV, Label Code V, MSI, Standard 2 of 5, Toshiba Code, UPC/EAN

### Camera

1.3 M pixel CMOS

### Keyboard

6 hard keys	CLK/IN (F1)	CLK/OUT (F2)
	BRK/IN (F3)	BRK/OUT (F4)
	Enter (Yes)	ESC (No)

### Display

5.6" TFT - LCD QGA(240X320) color

### On and I/O

Digital inputs	4
Output relays	4
Audio speaker	0.8W
Ethernet connection	RJ45 powered over Ethernet (POE)

### Power Management

Power Input	12 VDC
UPS	One rechargeable Lithium-ion battery pack 3.8V, 4000 mAH
UPS Operating time	2 hours operation or 3 days data backup

### Expansion

One CF Type II slot for wireless LAN expansion  
One SD slot for memory storage, up to 2GB

### Physical and Environmental

Temperature	Operation: 32°F to 122°F (0°C to 50°C) Storage: -4°F to 158°F (-20°C to 70°C)
Humidity	5% to 95% RH non-condensing

### Software Programming Tools

Embedded Visual Basic terminal program for T&A  
Embedded Visual C++ terminal program for T&A



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