



# MR650 Video TAS Terminal



The MR650 is a TAS (time management, access control and security) terminal with a large 240 by 320 pixel, color touch screen and a familiar interface, Windows CE Operating System. Users will increase productivity right from the start and application development is easier than ever. The MR650 is designed to meet the requirements of Time & Attendance, Loyalty Programs, and Work-In-Progress 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 built-in CMOS digital camera, microphone, and audio speaker. Multiple I/O parts and interfaces make it the ideal solution for complex systems.

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

## Main Features

- Powered by Windows CE 5.0
- Large 240 x 320 pixel color touch screen
- Built-in bar code, MSR, proximity, HID or fingerprint reader
- Built-in 1.3 megapixel CMOS camera
- Microphone input, speaker output
- Three relay output controls
- 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) for Wireless 802.11b/g
- POE, Power Over Ethernet
- SD slot for expanded memory

### Performance Characteristics

OS	Windows CE 5.0 Professional
CPU	PXA270 - 520MHz
RAM	128MB
FlashROM	64MB

### Proximity Card Reader

EM	125 KHz
HID	125 K

### Fingerprint Reader

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

### Magnetic Stripe Reader

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 megapixel 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 QVGA(240x320) color

### Communication and I/O

Digital inputs	4
Output relays	3
Audio speaker	0.8W
Ethernet connection	RJ45 powered over Ethernet (POE)
USB host	

### 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 802.11 b/g  
SD slot for memory expansion

### 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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