



### MR650 – Time & Attendance Management for U

Time and attendance management, access control, security and kiosk information just got easier with the MR650 from Unitech. With a 5.6" TFT colour QVGA touch screen, the MR650 has been designed for a whole range of applications including time and attendance, access control, loyalty programmes, price checking and work-in-progress.

### Easy to Power Up And Get Going

The MR650 is the first open platform terminal that allows for easy integration with standard management software or other applications, thanks to its Windows CE.NET 5.0 operating system and its software development kit. This gives you everything you need to create your own security, time & attendance and kiosk applications, quickly and easily, out of the box. Based on standard software tools, developers are provided with a familiar environment and won't need additional training. Once it's powered up you can be sure it won't power down! In order to safeguard your security and your data, the MR650 comes with a built-in UPS, providing 2 hours of operation without main power or up to 3 days data backup.

### Choose The Features You Need

With the flexibility to choose the security checks and data capture tools that are most suitable for your business, the MR650 comes with built-in contact free proximity reader, fingerprint reader, barcode reader or magnetic strip reader. Extra security can be added with the built-in camera and the microphone and speaker providing audio intercom. With the MR650 you can combine a punch card system with a photo to eliminate buddy punching, automate continuous video recording or make a facial recognition system.

### Take Total Control

Take full control over the outputs and inputs. The terminal has 3 relay outputs enabling you to control other devices, such as doors and external cameras. The 4 inputs detect incoming requests and the keypad has 6 rubber keys, including esc, enter and 4 programmable F1-F4 keys. When it comes to connectivity, the MR650 comes with on board Ethernet and the option to use 802.11b/g wireless communications via the spare compact flash slot. If additional memory is required this can be added with the SD slot. With the built-in web server it is very easy to build your internet based solution; through any browser the user can get control of the MR650 and all the captured data.

So when it comes to safeguarding your business or tracking your data take control with the MR650 – the device designed just for U.

### Main Features

- Powered by Windows CE.NET 5.0 operating system
- 5.6" TFT colour QVGA 240x320 resolution touch screen
- Built-in 1.3Mpixels CMOS camera
- Built-in microphone and speaker
- Integrated contact free proximity reader (EM 125KHz, HID and Mifare), fingerprint reader, barcode reader or magnetic stripe reader
- 3 relay outputs or 4 TTL digital inputs
- CF type II card slot for wireless 802.11b/g
- SD slot
- Built-in UPS battery for 2 hours operation or 3 days data backup
- POE (Power Over Ethernet)
- Software Development Kit (SDK) for creation of applications and ease of integration

# MR650

## Specifications

### SYSTEM

OS	Microsoft Windows CE.Net 5.0
Microprocessor	PXA270 -520MHz
Display	5.6" TFT color QVGA 240 x 320 resolution touch screen
Keypad	6-key keypad: CLK/IN (F1), CLK/OUT (F2), BRK/IN (F3), BRK/OUT (F4), Enter (YES), ESC (NO)

### MEMORY

Standard	128 MB RAM Memory, 64 MB Flash ROM
Extension	SD memory slot, CF Slot, USB Host

### POWER

Input	12 V DC
UPS Battery Type	Rechargeable Lithium-Ion
UPS Battery System	3.8V 3800mAh, rechargeable
UPS operating time	2 hours operation or 3 days data retention POE Power over Ethernet

### INTERNAL READER

Proximity Card Input	EM 125 KHz, Mifare 13.56 MHz, HID 125 KHz
Fingerprint Input	Sensor: Authentec AFS8500 Verification time: Maximum 2 seconds Equal error rate: 0.1% at medium security Number of templates: 4000 on the terminal Triple track MSR reader Unitech decoder chip: UPC -A/E, EAN 8/13, Codebar, 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, EAN 128
Magnetic Stripe Input	
Bar Code Input	

### CONNECTIVITY

TCPIP	Ethernet (TCPIP) port (RJ45)
Serial	RS232, RS485
USB	USB Host

### ENVIRONMENT & PHYSICAL CHARACTERISTICS

Operating Temperature	0° to 50°C
Storage Temperature	-20° to 60°C
Relative Humidity	5% to 95% (non-condensing)
ESD protection	4KV DC contact, 8KV DC Air
Dimensions	LxHxW 215mm x 152mm x 50mm
Weight	1260 grams with battery pack

### EXPANSION\*

Compact Flash	- wireless communication (IEEE801.11b/g) - Memory - Bluetooth - Serial ports
SD-Memory	SD Memory Card
USB Host	USB Memory stick, PC USB Keyboard, Unitech barcode scanners, Unitech magnetic stripe readers

\*not included

### REGULATORY APPROVAL

CE, FCC, BSMI

### SECURITY

Biometric	Integrated Fingerprint reader
Camera	1.3Mpixels CMOS camera for picture taking and video recording
Intercom	Built in microphone plus speaker

### ACCESS FUNCTIONALITY

Output	3 Relays
Input	4 TTL Digital inputs (Input resistance is 15K Ohm)

### SOFTWARE

Communication	Active Sync ( Microsoft communication tool)
File transfer	WinCE FTP Server built in
Websrver	WinCE HTTP Websrver built in
TelNet Server	WinCE Telnet Server built in
DeviceManager	Administer FTP/HTTP/Telnet server
CameraDemo	Demo Camera, preview, Photo shoot, Camera recorder
FingerPrint Demo	Demo Fingerprint, enroll en verify
Unitech Scanner Interface	Configure built in ID reader, Scan2Key as ready-to-go, ID reader to keyboard application
Secure Terminal Operation	Cold boot resistant by "Auto Installer" or "Backup/Restore" which can be combined with "Monitor" to limit direct access to WinCE
TSC	Microsoft Terminal Server Client
Internet Browser	Microsoft Internet Explorer
MultiMedia	Microsoft Media Player Series 9
SDK (C++)	MR650 development toolkit, including SysIOAPI, UnitechAPI and USI to optimize the usage of MR650
I2TG	Web based T&A Solution

### MOUNTING

Wall	Backplate mounted directly on wall
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### MODELS

MR650-E0EA0G	TAS Terminal with EM Proximity reader 125KHz
MR650-B0EA0G	TAS Terminal with Bar Code Slot reader
MR650-R0EA0G	TAS Terminal with 3-Track MSR reader
MR650-H0EA0G	TAS Terminal with HID Proximity reader 125KHz
MR650-M0EA0G	TAS Terminal with Proximity Mifare 13,56MHz
MR650-F0EA0G	TAS Terminal with Finger Biometric reader
MR650-90EA0G	TAS Terminal with Finger Biometric reader & EM Proximity Reader 125KHz
MR650-80EA0G	TAS Terminal with Finger Biometric reader & Proximity Mifare 13,56MHz
MR650-60EA0G	TAS Terminal with Finger Biometric reader & HID Proximity Reader 125KHz

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