

# MAT 213

## Mobile Application Terminal

**M.A.T. Mobile Application Terminal** - designed with the elements required for a tough environment.

The MAT ergonomic terminal with its ruggedized housing provides the user with a mobile terminal ideal for use by a worker in the harsh environments encountered in a factory, warehouse or distribution center.

Meeting IP64 standards, the MAT's rugged casing is sealed against dust and water to ensure reliable, trouble free service.

The **MAT** uses Microsoft® Windows CE providing significant flexibility to customers wishing to control the user experience.

### Operating System

- Windows CE .NET 4.2 with .NET Compact Framework 1.0 or Windows CE .NET 5.0 with .NET Compact Framework 2.0
- Pro\* or Pro Plus\*\*

### Microprocessor

- Intel XScale PXA255, 400MHz

### Memory & Storage

- 128MB RAM, 96MB Flash, Windows
- Persistent Storage (Data, System Files, Registry)

### Communications

- Full RS-232
- USB 1.1 host for keyboard, printers, etc.
- USB 1.1 client for syncing with a host
- Bluetooth (WPAN) (optional)
- 802.11b/g (WLAN) (optional)

### Expansion Slots

- Compact Flash (Integrated or Optional User Accessible)
- SD/MMC (User Accessible)

### Display

- 3.5" QVGA (240x320)
- 64K Color
- Transflective/Sun-light Readable
- Touch Screen with stylus or finger
- Backlit (varying levels software controlled and keyboard on/off)

### Indicators

- Front panel LED's:
  - Charge Indication (Yellow/Green)
  - Programmable LED (Green)
- Integrated Vibrator



### Keypad

- 49 key, full alphanumeric, plus 2 side Scan keys
- 12 Function Keys, (4 dedicated, 8 shifted)
- Backlit, Color, software controlled (on/off)
- One centrally located Scan key, Two side Scan Keys
- 2 "Enter" Keys (right/left-hand accessible)
- Large Numeric Keys
- Flat, rubberized, non-glare keys
- One-hand (sticky key) operation
- Programmable Audible "key click"
- Software Keypad
- Shift & Navigation key LED indicators

### Audio Capabilities

- Integrated Speaker
- Integrated Microphone
- Beeper/Buzzer: 90dBA programmable volume, pitch and duration
- Headset jack, 3.5mm

### Power

- Removable Li-Ion 3.7V, 4400mAh min.
- Back-up Li-Ion 3.7V, 120mAh
- 8 hr minimum live use (scanner, keyboard and radio use)
- Power jack for external power and charging
- Battery Gas Gauge

## User Environment

- Environmental Specifications
  - Operating Temp: 14° to 131°F (-10° to 55° C)
  - Storage Temp: -13° to 140°F (-25° to 60°C)
  - IP-64
  - Drop test rating: 5 feet, multiple times to concrete
  - Relative Humidity: 5 to 95% non-condensing
  - UL flame Rating: 94V/0
- Regulatory Approvals
  - FCC Part 15 Class B
  - CE

## Mechanical

- Construction
  - Palmheld, Ergonomically Designed
  - Integrated Stylus Holder
  - Co-molded for ruggedness
- Dimensions
  - Length: 8.60 in.
  - Width at display: 3.80 in.
  - Width at keypad: 3.16 in.
  - Weight: 25.5 oz. (Long Range Laser & WLAN Card)

## Supported Integrated Bar Code Scanners

- 1D Laser (Standard) – SE1224HP  
Premium scanning with built-in fuzzy logic processing for 1D codes. Supports Reduced Space Symbologies® (RSS) as well as existing 1D Symbologies.
- 1D Long Range (Optional) – SE1524ER  
Extended range scanning of 1D symbologies. Reads from 2-inches to 22 inches on a 7.5 mil and over 40 feet on a 100 mil reflective label. Supports aim mode.
- 2D Laser (Optional) – SE2223  
High-speed raster pattern, optimized for accurate reading of 1D and 2D high-density symbologies.
- Imager (Optional) – IT5180SR  
Powered by Adaptus™ Imaging Technology, with full omnidirectional reading. Capable of reading 1D linear codes, 2D stacked/matrix codes, OCR fonts and postal codes, along with the ability to capture images.

## Supported Symbologies

### All Scanners

Bookland	Code 128	ISBT 128
Codabar	Coupon Code	MSI Plessey
Code 32	Discrete 2 of 5	IATA25
Code 39	Code 39 Full ASCII	Trioptic Code 39
Code 93	UPC/EAN	VIN
1 2 of 5	UPC/EAN128	

### 1D Standard Scanner: SE1224

Code 11 RSS

### 1D Long Range Scanner: SE1524ER

Code 11

### 2D Scanner: SE2223

PDF 417	Micro PDF 417	RSS
TLC39	Composite Codes	

### Imager: IT5180SR

PDF 417	Micro PDF 417	Code 16K
Aztec	Code 11	TLC39
Code 49	Composite Codes	MaxiCode
RSS	ISBT128 Concatenate	Data Matrix

## Application and 3<sup>rd</sup> Party Software

- ActiveSync
- Inbox – E-mail
- Internet Explorer 6.0 (Full CE .NET Version)
- Windows Messenger
- WordPad
- Windows Media Player
- Hand writing recognition
- Download tool for upgrades
- Signature Capture
- Voice Recorder
- Terminal Emulation
- Remote Desktop Protocol
- Pro Plus version includes:
  - Viewers – Excel, Image, PDF, PowerPoint, Word

## Development Tools

- Software Developer's Kit – Support for
  - eVC++
  - Visual Basic.NET
  - Visual C#
- Custom Control for Super Wedge interface
- Sample/Demo applications available
- XML, Jscript, VBScript
- NDIS 5.1
- Network Utilities
- Object Exchange Protocol (OBEX)
- Speech API (used to develop speech applications)
- TCP/IP
- Active Template Library (ATL)
- Microsoft Foundation Class (MFC)
- DCOM, DirectX
- SNMP, SOAP, Pocket Outlook Object Model API
- .NET Compact Framework with SQL Server

## Accessories

- Dock with spare battery bay for communications, charging and device storage.
  - Communications via the Dock
    - RS232
    - USB (Client/Host)
    - Modem (Optional)
- Cigarette Lighter Power Cable
- Lanyard
- Shoulder Strap

## Optional End Caps available for

- RS-232
- USB (Client / Host)
- Modem (Optional)

**For Sales  
Information  
call or write:**



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