

MAT 223

Mobile Application Terminal

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

The MAT ergonomic pistol grip 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
- 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)
- 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

Rugged



Pistol Grip

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
- 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
 - Pistol Grip, Ergonomically Designed
 - Integrated Stylus Holder
 - Co-molded for ruggedness
- Dimensions
 - Length: 8.60 in.
 - Width at display: 3.80 in.
 - Height: 6.53 in.
 - Weight: 27 oz. (Long Range Laser & Bluetooth)
28.5 oz. (Standard 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
12 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 3rd 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 SuperWedge 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
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