

# M7100

## Wireless Hand-Held Terminal



### Powerful performance for mobile data collection applications

Incorporating the best of today's wireless technology, with the reliable performance of open source, embedded Linux®, the M7100 maximizes flexibility, performance, and value in mobile data collection computing. Built tough and optimized for cost-effectiveness, the M7100 is an ideal solution for real-time, information-intensive applications in retail, distribution, warehousing, manufacturing, and health care.

### User friendly functionality

The M7100 is richly configured with advanced features to optimize operational efficiency and productivity – ensuring the rapid, timely processing of mission critical data, even in the most demanding applications. Powered by the fast Intel® StrongARM® processor, the M7100 is equipped with 32MB of built-in RAM and 16MB Flash ROM for ample storage capacity. Its internal radio supports IEEE 802.11b wireless local area network (WLAN) connectivity for real-time, high-rate data transfer between wireless operators and host applications (optional wireless wide area network GSM/GPRS connectivity for route accounting, delivery, and other field service applications). Extended operation is ensured by the M7100's enhanced power management, which supports eight-hour work shifts without recharging.

Each AML M7100 wireless terminal ships fully loaded with VT100/VT220 terminal emulation, TN5250 client, FTP server, HTTP server, TELNET client, Web Browser, WEP, and WPA/WPA2 advanced encryption and authentication capabilities. Options are also available for 3270 or 5250 applications requiring screen shaping and/or keyboard mapping. The M7100's computing flexibility simplifies the application development process, making the terminal quick and easy to implement – maximizing your return on investment.

### Designed for maximum flexibility

Rugged but ergonomic, the M7100 provides comfort and ease of use in scan-intensive applications. The M7100 sports a lightweight, contoured design for comfortable, one-handed operation over extended periods of use. The graphical 160 x 160 backlit LCD with multi-font capability is easy to read, even in dimly lit environments. The spacious LCD screen supports the display of large amounts of information, minimizing the need for screen scrolling.

The M7100 is designed to provide maximum flexibility across a wide range of data collection applications. The M7100 features an easy-to-use 55-key alphanumeric keypad, multiple integrated scanner options (both 1D and 2D), RS-232 and infrared communication ports. Accessories include single and four position communications/charging cradles, four position battery charger, vehicle mount charger, removable pistol grip with trigger, and multiple holsters.

AML is a leading developer & manufacturer of reliable, high-performance bar code and data collection products. Since 1983, AML and its partners have helped thousands of companies worldwide to increase business efficiency and productivity – in manufacturing, warehousing, retail, health care, finance, government, and education. AML products are made in the United States.



Model 7100  
Wireless Hand-Held Terminal

Features	Benefits
Rugged, ergonomic design	Supports comfortable, one-handed operation over extended periods of use. Holds up in industrial environments.
Intel StrongARM® Processor	Rapid processing power
Integrated IEEE 802.11b radio with up to 11Mbps throughput Optional: GSM/GPRS connectivity	Industry standard WLAN radio technology for real-time, high-rate data transfer
32MB RAM/16MB ROM	Ample storage capacity, even for the most information-intensive applications
WEP and WPA/WPA2 security	High-level security protection. Includes EAP-TLS, EAP-PEAP, EAP-TTLS and PSK-TKIP
Graphical 160 x 160 backlit LCD display with multi-font capability	Easy to read, even in dimly lit environments
55-key alphanumeric keypad	Maximizes data entry across a wide range of data collection applications
Rechargeable, high capacity 2200 mAh Lithium-Ion battery	Enhanced power management for eight-hour work shifts without recharging
Open source, embedded Linux® architecture	Highly reliable system performance
IrDA Communication Port	Allows communication to peripheral devices

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## Wireless Hand-Held Terminal

### Physical Characteristics

Dimensions & Weight:	Overall: 8.875" length x 3.5" width x 2.25" depth; 18.5 oz 225mm length x 89mm width x 57mm depth; 525g
Drop Specifications:	5 ft. (1.5m) to concrete
Display:	Graphical 160 x 160 backlit EL LCD with multi-font capability
Battery:	Rechargeable 2200 mAh Lithium-Ion
Operating Temperature:	14° to 122°F/-10° to 50°C
Storage Temperature:	-13° to 122°F/-25° to 50°C
Humidity:	5% to 90% RH non-condensing
Electrostatic Discharge (EDS):	15 kVdc air; 4kVdc contact
Keypad:	55-key alphanumeric
Integrated Scanner Options:	Standard Laser; Long Range Laser; Advanced Long Range Laser; Long Range CCD; 2D Imager

### Performance Characteristics

ARM® and StrongARM® are trademarks of ARM, Ltd.

CPU:	Intel StrongARM® SA1110 @ 133MHz
Operating Platform:	Open source, embedded Linux®
Security:	Support for WEP and WPA/WPA2 encryption & authentication (EAP-PEAP, EAP-TLS, EAP-TTLS, and PSK-TKIP)
Memory:	32MB RAM/16MB ROM
Application Development:	Application development using the GNU C Compiler
Communications:	IrDA; RS-232

### Wireless Data Communications

Wireless Local Area Network:	IEEE 802.11b Standard
Data Rate:	11, 5.5, 2 or 1 Mbps, auto-select
Frequency:	2.4 GHz
Output Power:	17dBm max (20dBm optional)
Encryption:	None, 40 Bit, 128 Bit (WEP)
Wireless Wide Area Network:	Optional Tri Band GSM/GPRS (Data only. Does not support voice. Requires optional 32MB/16MB memory upgrade and customer supplied GSM cellular account. Replaces standard IEEE 802.11b WLAN radio.)
Tri-band Operations:	EGSM 900/ DCS 1800/ PCS 1900
Circuit Switch Data:	Asynchronous, Transparent / Non-Transparent Mode, Up to 14.4Kbps
Fax:	Group 3 / Class 2.
GPRS:	Class B, Multi-slot Class 8 (4 down/1 up/5 per frame), Simultaneous network registration of GS.
AT Command Set:	Complying with GSM 07.05, 07.07 including GPRS-specific or extended commands.
Antenna:	Internal (WLAN or WWAN)

### Optional Peripherals & Accessories

Cradles:	Single slot & four position communication/charging cradles available
Vehicle:	Vehicle mount terminal charger; vehicle mount cradle (non-charging)
Four Position Battery Charger:	Simultaneously charges 1-4 batteries
Pistol Grip:	Removable pistol grip with trigger
Holsters:	Two styles of functional holsters with adjustable belts

### Regulatory

EMI/RFI:	FCC Part 15 Class A
Laser Safety:	CDRH Class II, IEC Class 2
Safety:	Mexico NOM/NYCE - NOM 019 SCFI

### Connectivity

Terminal Emulation:	VT100/VT220/TN5250 Clients Options for 5250 or 3270 applications requiring screen shaping and/or keyboard mapping
Built-in Software Functions:	TELNET Client, FTP Server, HTTP Server, Web Server, & Web Browser

Specifications and information are subject to change without notice.  
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### Options

- Extended Warranty coverage (3 years)
- Extended Warranty Plus coverage (3 years)
- CARE Plan Extended Warranty coverage (3 years)

### Maintenance & Support

A one (1) year warranty agreement is included with the  
purchase of the M7100.



# AML

NEVER COMPLICATED™

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MADE IN THE U.S.A.

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AML/M7100

