Wireless Hand-Held Terminal

M7100

Powerful performance for mobile data collection applications
The AML M7100 Wireless Hand-Held Terminal is redefining the standard for wireless data collection technology. 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 16MB of built-in RAM and 4MB 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 mobile operators and host applications. Extended operation is ensured by the M7100’s enhanced power management, which supports eight-hour work shifts without recharging.

The M7100 integrates into a wide range of computing environments and supports AML’s Windows® compatible CommandLink™ wireless data collection software, C++, and Basic. VT100/VT220 terminal emulation is standard on the M7100, with options available for IBM 3270 and 5250. 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, RS-232 and infrared communication ports. Accessories include a removable pistol grip with trigger, communications/charging cradle, and holster.

Features

<table>
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<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Rugged, ergonomic design</td>
<td>Supports comfortable, one-handed operation over extended periods of use. Holds up in industrial environments.</td>
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<tr>
<td>Intel StrongARM® Processor</td>
<td>Rapid processing power</td>
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<td>Integrated IEEE 802.11b radio with up to 11Mbps throughput</td>
<td>WLAN connectivity for real-time, high-rate data transfer</td>
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<td>16MB RAM, 4MB Flash ROM Optional: 32MB RAM/16MB ROM</td>
<td>Ample storage capacity, even for the most information-intensive applications</td>
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<tr>
<td>Graphical 160 x 160 backlit LCD display with multi-font capability</td>
<td>Easy to read, even in dimly lit environments</td>
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<td>55-key alphanumeric keypad</td>
<td>Maximizes data entry across a wide range of data collection applications</td>
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<td>Rechargeable, high capacity 1500 mAh Lithium-Ion battery</td>
<td>Enhanced power management for eight-hour work shifts without recharging</td>
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<tr>
<td>Open source, embedded Linux® architecture</td>
<td>Highly reliable system performance</td>
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<td>IrDA Communication Port</td>
<td>Allows communication to peripheral devices</td>
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M7100 Wireless Hand-Held Terminal

Physical Characteristics

Dimensions & Weight: Overall: 8.875" length x 3.5" width x 2.25" depth; 16 oz.
Drop Specifications: 4 ft. to concrete
Display: Graphical 160 x 160 backlit EL LCD with multi-font capability
Battery: Rechargeable 1500 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: Long Range Laser, Standard Laser, or Long Range CCD

Performance Characteristics

CPU: Intel StrongARM® SA1110 @ 133MHz
Operating Platform: Open source, embedded Linux®
Memory: 16MB RAM/4MB ROM; Optional 32MB RAM/16MB ROM
Application Development: AML CommandLink™ Wireless Data Collection Software, C++, and Basic
Communications: IrDA; RS-232

Wireless Data Communications

Optics: 645 nm visible LED Bright and sharp scanning line
Wireless Local Area Network: IEEE 802.11b
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)
Antenna: Internal (WLAN)

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: Functional holster with belt; holster with shoulder strap

Regulatory

EMI/RFI: FCC Part 15 Class A
Laser Safety: CDRH Class II, IEC Class 2

Connectivity

Terminal Emulation: VT100/VT220 Standard; Optional IBM 3270 & 5250
Built-in Software Functions: TELNET Client, FTP Server, Web Server, Web Browser (requires optional memory upgrade)

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