M7140

Stationary Terminal for Industrial Data Collection Applications

AML NEVER COMPLICATED™

Rich with Features & Flexibility Enhancements

The AML M7140 is a programmable stationary terminal for fixed station, wired, or wireless industrial data collection applications. Engineered for price performance, yet offering powerful features and extensive flexibility enhancements, the M7140 is an ideal solution for work-in-process tracking, shop floor control, and factory automation in manufacturing, distribution and warehousing.

Extensive Connectivity & I/O Interfaces

The M7140 Stationary Terminal is extremely flexible and offers a broad range of connectivity and I/O interfaces to support most data collection requirements. Each M7140 ships standard with a powerful Intel StrongARM® processor, Compact Flash Card Slot, and 10 BaseT Ethernet connectivity. Extensive I/O interfaces include two RS-232 ports for bar code scanners or other serial devices, three optically isolated inputs, and three relay contact outputs for integration with PLCs, conveyors, scales, and alarm devices.

The M7140 Stationary terminal is built tough to withstand shop floor conditions and sports a rugged powder-coated steel enclosure, 77-key elastomeric keypad, a ¼ VGA backlit LCD display, and an internal speaker. 32MB DRAM memory, 16MB Flash ROM, and compact Flash storage up to 512MB provide adequate storage for all your program and data file storage.

Flexible Application Development

As a member of the AML M7000 Series of data collection terminals, the M7140 Stationary Terminal integrates into a wide range of computing environments to help reduce the time and costs associated with shop floor application development. The M7140 incorporates an open source, embedded Linux® architecture and each M7140 Programmable Stationary Terminal ships pre-loaded with VT100/VT220 terminal emulation, a native TN5250 client, FTP server, HTTP server, TELNET client, Web Browser, WEP and WPA/WPA2 advanced encryption and authentication capabilities (EAP-PEAP, EAP-TLS, EAP-TTLS, and PSK-TKIP). Options are also available for 3270 and 5250 applications requiring screen shaping and/or keyboard mapping.

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Physical

Dimensions: 9.53 x 9.125 x 2.5" / 243 x 232 x 63 mm
Weight: 3.9 lbs/1.81 Kg
Display: ¼ VGA, monochrome, backlit EL LCD (103 x 79 mm / 4 x 3" viewing area)
Keypad: 77-key elastomeric, alphanumeric QWERTY layout, 12-key numeric keypad, 12 function keys, 4 cursor control keys
Housing: Powder-coated, steel enclosure
Sound: Internal programmable speaker; External headphone/microphone jack

Environmental

Operating Temperature: 14° to 122° F -20° to 50° C
Storage Temperature: -13° to 122° F -25° to 50° C
Humidity: 5% to 90% RH non-condensing

Warranty

Includes one (1) year standard warranty agreement
Optional: Extended Warranty (3 years), Extended Warranty Plus (3 years), or CARE Plan Extended Warranty (3 years)

System

CPU: Intel StrongARM® SA1110 @ 133 MHz
Operating: Open source, embedded Linux®
Memory: 32MB DRAM, 16MB Flash ROM, Compact Flash storage up to 512MB
Communications Ports: 2 RS-232 ports, 3 optically isolated inputs, 3 relay contact outputs (Form C)
Connectivity: 10 BaseT ethernet; Compact Flash card slot for WiFi radio card

Software Tools

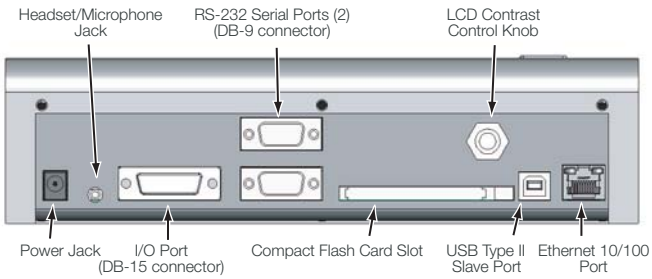
Application Development: Application development using the GNU C Compiler
Terminal Emulation: VT100/VT220/TN5250 Standard; Optional 3270 or 5250 for applications requiring screen shaping and/or keyboard mapping

Regulatory

EMI: FCC Part 15, IEC Class A

Optional Accessories:
Radio Card - 11 Mbps Wireless
Magnetic stripe reader (factory-installed)
Slot reader (factory-installed)

M7140 offers a wide range of input/output connections



Features	Benefits
Programmable stationary terminal for fixed station, wired, or wireless industrial data collection applications	**Provides performance flexibility across a broad range of shop floor data collection applications**
Extensive I/0 interface capabilities	**Supports connectivity to a wide array of data input devices, as well as relay contact outputs**
WEP & WPA/WPA2 security	**High-level security protection**
Compact Flash Card Slot	**Accommodates user supplied WiFi radio card for wireless LAN connectivity**
10 BaseT Ethernet connectivity	**Network connectivity**
Intel StrongARM® Processor	**Rapid, dependable processing power**
32MB DRAM, 16MB Flash ROM Compact Flash Storage up to 512MB	**Ample program & data file storage**
77-key elastomeric keypad	**Promotes flexible data entry for increased productivity**
Powder coated, steel enclosure	**Holds up in industrial environments**