

M7220 Series

Wireless Terminal



Keep your wireless deployment on track & on budget

The AML M7220 is the affordable, flexible solution for professionals who require a tough yet easy to use wireless terminal to support all day, real-time data capture in retail, distribution and manufacturing environments.

The M7220 series is the perfect wireless data collection device for terminal emulation applications. With built-in clients for VT100, VT220, TN3270, and TN5250, no third party software is required. Connectivity is quick and easy with the M7220.

Multiple product configurations ensure operational flexibility across a wide range of data capture applications. Choose a 55-key alphanumeric keypad or a lockable 35-key numeric keypad for applications requiring fast numeric data entry. Fully integrated scan engine options include standard laser, long range laser, advanced long range laser or 2D imager for picture and signature capture.

Applications

Inventory
Shipping/Receiving

Factory Floor
Price Verification

Stock Control
Asset Tracking



Features

Rugged, ergonomic design

Samsung® ARM9 processor

Open source Linux® architecture

Integrated 802.11b/g WLAN radio with WEP & WPA/WPA2 security protection

Menu-driven setup

32MB RAM/16MB ROM

Advanced power management

PC-based Configuration Utility

55-key alphanumeric or 35-key numeric keypad options

Optional 2-Dimensional imager

Benefits

Comfortably scan bar code data with one hand over extended periods of use.

Always have enough processing power to drive your most demanding, yet power-sensitive data capture applications.

Increase speed, performance and value in your wireless data capture application with freely available, open source Linux®.

Be assured of seamless, uninterrupted and secure real-time data communications.

Easily navigate, setup and configure your application settings and features.

Adequately store your operating system, user settings and third party applications, even in the most information-intensive applications.

Conserve battery power and ensure full-shift worker productivity without recharging or battery replacement.

Quickly configure and replicate settings on multiple terminals from your PC. Keep your deployment schedule on track and on budget.

Choose the intuitive keypad option that provides optimum operator efficiency.

Read 2D bar codes and capture digital images.

Physical Specs

Dimensions (without handle)	225 mm L x 89 mm W x 57 mm D; 8.9" L x 3.5" W x 2.3" D
Dimensions (with handle)	225 mm L x 89 mm W x 57 mm D; 8.9" L x 3.5" W x 2.3" D
Weight (with handle)	16 oz / 454 g
Weight (without handle)	25 oz / 709 g
Drop Specifications	5 ft. (1.5m) drop to concrete
Display	160 x 160 pixel Grayscale LCD with EL backlight
Battery	Rechargeable 7.2V Lithium-Ion 2200 mAh, 15.84 watt hours
Keypad	55-key alphanumeric; Lockable 35-key numeric
Pistol Grip	Standard on the M7221 wireless terminal
Barcode Scanners (optional)	Standard High-Speed Laser; Long Range Laser; Advanced Long Range Laser; 2-Dimensional Imager

Performance Specs

CPU	Samsung® S3C2410 32-bit ARM9 @ 202 MHz with Advanced Microcontroller Bus Architecture (AMBA)
Operating System	AML Embedded Linux® OS; Linux® Kernel 2.6.16
Memory (RAM/ROM)	32 MB SDRAM @ 101MHz, 16 MB Non-volatile NOR Flash
Development Environment	AML M7220 SDK for Linux® supporting C & C++; GNU GCC 3.3.5 for ARM-Linux®; Fully Open Sourced Licensing
Data Communications	USB Type B (Slave); Serial RS-232 (max. rate 115200 baud); IrDA
Sound	Integrated system bell (beeper)

Environmental Specs

Operating Temp	-10° to 50° C / 14° to 122° F
Storage Temp	-25° to 50° C / -13° to 122° F
Humidity	5% to 90% RH, non-condensing
Electrostatic Discharge (EDS)	15kVDC air; 4kVDC contact
Sealing	IP51 (dust, drip water proof)

Regulatory Specs

Certifications	FCC Part 15 Class A
Laser Safety	CDRH Class II, IEC Class 2



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Software Specs

PC-based Configuration Utility	Quickly configure and replicate settings on multiple terminals from your PC
Terminal Emulation	VT100/102; VT220; TN5250; SSH
Web Browser	'Links2' graphical and text based web browser
Utilities	Calculator; Bar Code Data Viewer; Linux Console; Camera Utility (if equipped w/ optional 2D Imager)
Servers	TELNET; FTP; SSH/SFTP; HTTP
Diagnostic Tools	Printer Test; Network Status Application; System Resource Usage; Network Ping Utility

Wireless Communications

Radio	IEEE 802.11b/g
Frequency	North America: 2.412 – 2.462 GHz; Japan TELEC: 2.412 – 2.484 802.11b; Japan TELEC: 2.412 – 2.472 802.11g; Europe ETSI: 2.412 – 2.472; Spain: 2.457 – 2.462
Transmit Power	802.11b: 17 dBm (40 mW); 802.11b/g: 14 dBm (32 mW)
Receive Sensitivity	54/48 Mbps: -65 dBm / -66 dBm; 24/36 Mbps: -70 dBm / -74 dBm; 12/18 Mbps: -77 dBm / -79 dBm; 11 Mbps: -80 dBm (802.11b); 6/9 Mbps: -81 dBm / -82 dBm
Modulation	48/54 Mbps (QAM-64); 24/36 Mbps (QAM-16); 12/18 Mbps (QPSK); 6/9 Mbps (BPSK)
Security	None; 64 (40)-bit WEP; 128 (104)-bit WEP; WPA/WPA2 Personal (PSK); WPA/WPA2 Enterprise (EAP 802.1x Supplicants)
Antenna	Internal Diversity

Peripherals & Accessories (optional)

Cradles	Single slot communication & charging cradle; Four slot terminal charger; Four slot battery charger
Vehicle	Vehicle mount terminal charger; Vehicle mount cradle (non-charging)
Holster	Two styles of functional holsters w/ adjustable belts

Maintenance & Support

Standard Warranty	One year standard warranty agreement
Optional	Extended Warranty Plus (3 years); Extended Warranty (3 years); CARE Plan Extended Warranty (3 years)

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