

# 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 Lorax "Near/Far" laser, standard laser, long range laser, advanced long range laser or 2D imager for picture and signature capture.



### Applications

- Inventory
- Stock Control
- Shipping
- Receiving
- Factory Floor
- Price Verification
- Asset Tracking

## Features

Rugged, ergonomic design

Samsung® ARM9 processor

Open source Linux® architecture

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

Menu-driven setup

Advanced power management

PC-based Configuration Utility

55-key alphanumeric or 35-key numeric keypad options

Multiple Scan Engine Options

## 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.

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.

Available with 2D Imager, Lorax "Near/Far" laser, Standard laser, Long Range laser or Advanced Long Range laser.

## General Specs

<b>Dimensions</b> (without handle)	225 mm L x 89 mm W x 57 mm D; 8.9" L x 3.5" W x 2.3" D
<b>Dimensions</b> (with handle)	225 mm L x 89 mm W x 208 mm D; 8.9" L x 3.5" W x 8.2" D
<b>Weight</b>	16 oz / 454 g ( <b>With handle:</b> 25 oz. / 709 g)
<b>Drop Specifications</b>	5 ft. (1.5m) drop to concrete
<b>Display</b>	160 x 160 pixel Grayscale LCD with EL backlight
<b>Battery</b>	Lithium-Ion 2600 mAh, 19.2 watt hours
<b>Keypad</b>	55-key alphanumeric; Lockable 35-key numeric
<b>Pistol Grip</b>	Standard on the M7221 wireless terminal
<b>Barcode Scanners</b> (optional)	Lorax "Near/Far" Laser; Standard High-Speed Laser; Long Range Laser; Advanced Long Range Laser; 2-Dimensional Imager
<b>Sound</b>	Integrated system bell (beeper)
<b>I/O Port(s)</b>	USB Type B (Slave); Serial RS-232 (max. rate 115200 baud)

## Performance Specs

<b>CPU</b>	Samsung® S3C2410 32-bit ARM9 @ 202 MHz with Advanced Microcontroller Bus Architecture (AMBA)
<b>Operating System</b>	AML Embedded Linux® OS; Linux® Kernel 2.6.16
<b>Memory (RAM/ROM)</b>	32 MB SDRAM @ 101MHz, 16 MB Non-volatile NOR Flash
<b>Development Environment</b>	AML M7220 SDK for Linux® supporting C & C++; GNU GCC 3.3.5 for ARM-Linux®; Fully Open Sourced Licensing

## Environmental Specs



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

## M7221 Configuration



The M7221 features a forward-scanning, pistol grip handle.

## Regulatory Specs

<b>Certifications</b>	FCC Part 15 Class A	 
<b>Laser Safety</b>	CDRH Class II, IEC Class 2	

## Software Specs

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

## Wireless Communications Specs

<b>Radio</b>	IEEE 802.11b/g
<b>Frequency</b>	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
<b>Transmit Power</b>	802.11b: 17 dBm (40 mW); 802.11b/g: 14 dBm (32 mW)
<b>Receive Sensitivity</b>	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
<b>Modulation</b>	48/54 Mbps (QAM-64); 24/36 Mbps (QAM-16); 12/18 Mbps (QPSK); 6/9 Mbps (BPSK)
<b>Security</b>	None; 64 (40)-bit WEP; 128 (104)-bit WEP; WPA/WPA2 Personal (PSK); WPA/WPA2 Enterprise (EAP 802.1x Supplicants)
<b>Antenna</b>	Internal Diversity

## Peripherals & Accessories (optional)

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

## Maintenance & Support

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

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