

# M5900

## Portable Data Terminal



### Mechanical

**Dimensions:** 8.875 x 3.5 x 2.25" / 225 x 89 x 57 mm  
**Weight:** 16 oz / 454 grams (M5900); 25 oz / 709 grams (M5900i)  
**Drop Specification:** 4 ft. (1.2m) drop to concrete (M5900);  
5 ft. (1.5m) drop (M5900i)  
**Display:** Graphical 160 x 160 backlit EL LCD;  
20 lines x 20 characters  
**Battery:** Rechargeable 7.2V 2200 mAh Lithium-Ion  
**Backup Battery:** Rechargeable lithium protects RAM  
and real time clock  
**Keypad:** 55-key alphanumeric

### Environmental

**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; 4 kVdc contact  
**Sealing:** IP51 (dust, drip water proof)

### System

**CPU:** 32 bit, 200 MHz ARM9 Processor  
**Operating:** Open source, embedded Linux®  
**Memory:** 32MB DRAM, 16MB Flash ROM;  
10MB available for user programs and data files  
**Data Communications:** Serial RS232 (RJ-45) supported by  
M5910 Terminal Charger/Serial Adapter; USB (Type II)  
**Power Option:** Rechargeable Lithium-Ion battery

### Industrial Version

The M5900i features a forward-scanning pistol grip handle and protective boot. Enhanced 5 ft. (1.5m) drop rating to concrete.

### Bar Code Scanner

**Integrated Scanner Options:** Standard Laser;  
Long Range Laser; Advanced Long Range Laser;  
Long Range CCD

**Bar Codes:** Auto discriminates between Code 39, Extended Code 39 (full ASCII), Interleaved 2 of 5, UPC-A, UPC-E, EAN-8, EAN-13, UPC & EAN supplements, EAN-128, Code 128, Code 93, Code 11, Codabar, MSI/Plessey, Bookland EAN, RSS14, RSS Limited, RSS Expanded

### Software Tools

Preloaded with six everyday data collection applications. Supports programs generated with the AML M5900 Program Generator. Tool chain available to developers upon request.

### Optional Peripherals & Accessories

ACC-5910 terminal charger/serial adapter  
Single slot communication/charging cradle  
Four position battery charger  
Holster with belt

### 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)

### Safety & Regulatory

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



### Big business performance. Small business value.

With big business functionality at a small business price, the AML M5900 portable data terminal can help streamline and improve your business operations, while keeping IT costs low – no matter the size of your business.

The M5900 features 32MB RAM/16MB flash ROM memory (with 10MB of user-available non-volatile memory), a rapid 200 MHz ARM9 processor, a rechargeable Lithium-Ion battery, a backup lithium battery, large graphical backlit LCD display, and a 55-key alphanumeric keypad. It also comes with a SQLite database engine for powerful handling of data files.

Each AML M5900 Series portable data terminal includes all the software development tools required to quickly and efficiently put the M5900 to work in your business. The M5900 terminal is preloaded with six everyday data collection applications that give you the capability to scan bar codes and collect basic data. For custom application development, the AML M5900 Program Generator is included at no additional cost. Uploading of data is simple via serial or USB data transmission.

The AML M5900 portable data terminal is available in two configurations – the M5900 General Purpose and the M5900i Industrial. Both models come with your choice of integrated standard laser, long range laser, advanced long range laser, or long range CCD bar code scanner.

Durable, easy to use, and packed with big business functionality, the AML M5900 portable data terminal is an ideal solution for everyday, all day data collection applications – including inventory control, factory floor management, price verification, shipping/receiving, asset tracking and more.

The AML M5900 portable terminal helps business do more, for less.



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### Features

- Durable, ergonomic design**
- Graphical 160 x 160 backlit LCD display**
- High performance 200 MHz ARM9 Processor**
- 32MB RAM, 16MB Flash ROM**
- SQLite database engine**
- Rechargeable, high capacity 2200 mAh Lithium-Ion battery**
- Backup battery**
- 55-key alphanumeric keypad**
- Preloaded with six common data collection applications**
- M5900 Program Generator**
- Multiple integrated scan engine options**
- RS232 and USB ports**

### Benefits

- Built for everyday, all day use.**
- Easy to read, even in dimly lit environments. Accommodates 20 lines x 20 characters of text.**
- Rapid access to large look-up tables or stored data.**
- Ample storage capacity for program and data files, even in the most information-intensive applications.**
- Powerful handling of data files.**
- Much longer life than conventional batteries. Ensures extended periods of operation without interruption.**
- Protects and retains memory when the main battery is discharged or removed.**
- Multi-functional keypad supports most data collection applications.**
- Easily scan bar codes and collect basic data.**
- Quickly and efficiently create custom applications for the M5900.**
- Choose the most appropriate bar code scanner for your specific data collection application.**
- Simple and easy data upload.**