

# AVIDdirector™ M2M Model 200

## AVIDdirector-M2M® Model 200



There are 3 main advantages that bring AVIDdirector-M2M to the forefront of Machine Automation solutions that saves you both time and money:

**Flexibility** – With multiple methods of wired and wireless I/O you can connect AVIDdirector to virtually any type of machine. The decision is up to you.

**Intelligence** – AVIDdirector has the intelligence to know who, what, when, where and how to send and receive data that is vital to your business. We have you covered.

**Dynamically Programmable** – AVIDdirector gives you and your staff the ability to update and configure your equipment and resources remotely from the convenience of your office. You save time and money.

AVIDdirector-M2M provides you with a powerful yet flexible platform that handles machines, controls, telemetrics, or mobile applications. AVIDdirector is based on a powerful 160 MIPS real-time Java processor running an extended version of J2ME. This allows applications to be developed with a minimum amount of effort using our standardized software framework, or you can leverage your existing wireless Java software and tools to develop a customized application.

### Features

#### Intelligent

- § A high-performance Java based platform featuring the Imsys Technologies Cjip Processor
- § Intelligently gathers, analyzes and processes information to maximize bandwidth

#### Configurable

- § Choose from any wireless network
- § Internal GPS option available
- § Flexible sensor data acquisition

#### Wireless Networks

- § Cellular Networks:  
GSM/GPRS/EDGE, iDen, CDMA/1xRTT
- § Unlicensed ISM Bands:  
WiFi(802.11), 400, 900 & 2.4 GHz ISM
- § Short-Range Wireless:  
Bluetooth, ZigBee, ZWave

#### Flexible Interfaces

- § 22 TTL level I/O lines configurable as:
  - 4 Analog In/Out (ADC12, DAC6)
  - 8 Analog In (ADC12)
  - All are capable of Digital In/Out
- § Cypress PSoC I/O Processor with mixed Analog and Digital blocks
- § 7 RS-232 lines on DB-9 and DB-37, supporting 1 or 2 serial connections
- § 2 pins for I<sup>2</sup>C
- § USB Terminal console

#### Expandable

- § Open architecture for user developed boards
- § Available operator terminal unit
- § RFID options available (RF, HF, UHF)

#### Rugged

- § Built to work in -40° to 85° C with no ventilation required
- § All inputs are protected



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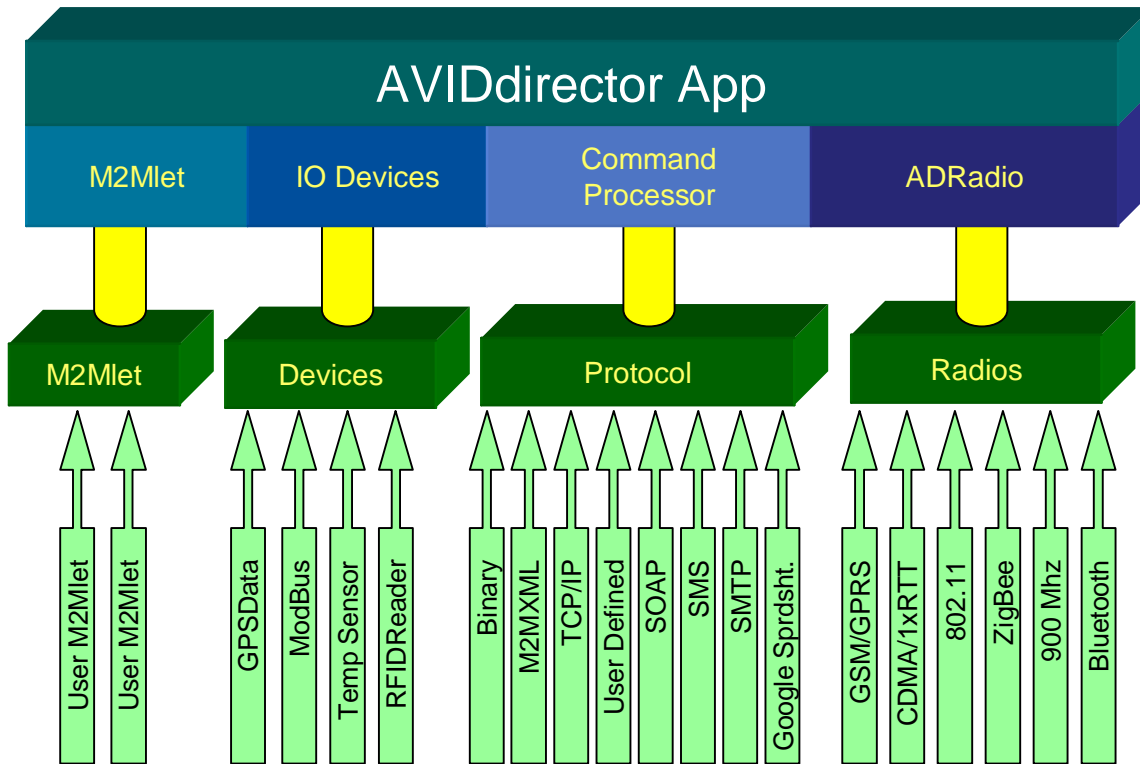
## Hardware

- § 7 to 28V automotive grade power supply
- § Low power 3.3V design
- § Four 4-wire UART's which can be mapped to a variety of hardware connections
- § Supports 3 simultaneous Radios
- § High-speed I<sup>2</sup>C interface
- § 22 General-purpose Digital I/O
- § Analog ADC12 and DAC6 devices
- § 4 or 8 MB flash memory
- § 8 MB DRAM – up to 6 MB Java Heap
- § Battery backed up Clock and Calendar
- § Board size 3.2x4.1" / 80x105mm
- § Most I/O easily accessible via standard DB-37
- § Ethernet 10/100 BaseT (optional)

## Software

- § Java ME CLDC, certified by Sun Microsystems
- § AVIDdirector-M2M Application Framework
  - § Open source, easily modified
  - § Drivers for common sensors and radios
  - § Plug-in architecture
- § Unlimited # of threads (to max heap) size
- § Embedded TCP/IP-stack with Telnet, FTP and Web servers
- § Standard Java libraries:
  - § Java.net, Javax.comm and subset of com.dalsemi
- § Works with free standard Java development tools e.g. Eclipse, NetBeans, Sun Java JDK
- § Optional IDE available for:
  - § Java, C and Assembler debugger
  - § KNI Native Interface

## Application Framework



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