ACT M2M-1000-V IoT Ecosystem

Aeronix—an Internet of Things Cloud and Equipment Infrastructure Provider

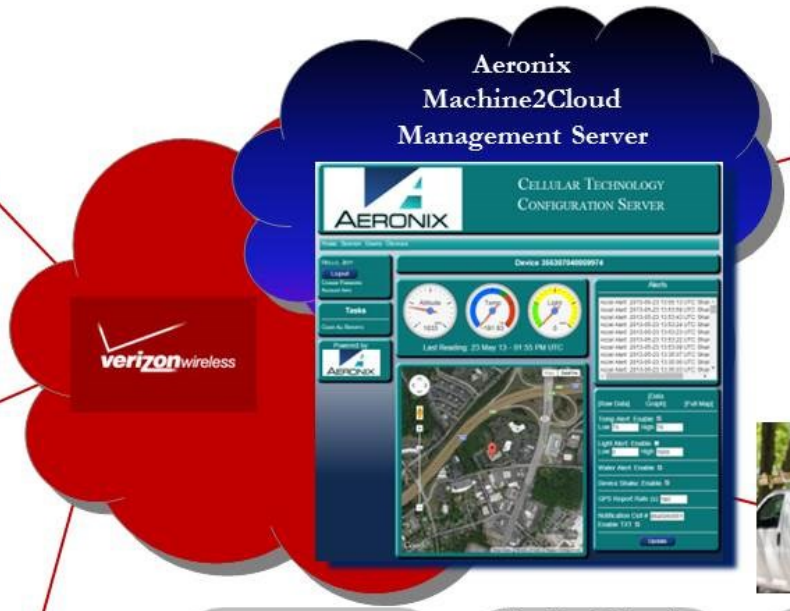
Bringing the physical information from machine equipment into the Internet of Things Cloud and the Enterprise

Custom Electronics Solution

Machine-Device

Integrated in machine equipment M2M-1000-V Board

Tethered using External Aeronix M2M-1000-V



Machine2Device M2M-1000-V

- Bandwidth efficient 3G M2M-1000-V design
- Optimized M2M Cloud architecture
- Encrypted, secure link
- Long battery life, solar ready

Machine2Cloud Server

- Supports real-time device configuration
- Monitoring, alerts, auto action, and user action
- User dashboard
- Device management

Enterprise Ready

- Worldwide scale-ability
- Enterprise application abstraction layer interface
- Subscription or Customer portable

The Aeronix ACT IoT Ecosystem enables individual equipment to be rapidly modernized from stand-alone operation into an intelligent, automated Machine-to-Machine (M2M) enterprise network.

Aeronix provides the “intelligent plumbing” between your machine and your business processes. By leveraging Aeronix ACT wireless-IoT systems, wireless IoT board products, and Machine2Cloud server infrastructure, previously remote stand-alone machine equipment can be transformed into an intelligent machine network enabling shorted business processes and cost efficiencies.

As a certified Verizon Wireless device and provider, Aeronix is a one stop shop for your M2M and Iot needs.

For additional information contact: IoT@aeronix.com

www.aeronix.com

AERONIX

535 N. Pleasantburg Drive ■ Suite 114 ■ Greenville, SC 29607 ■ Tel.(864) 250-1950
1775 West Hibiscus Boulevard ■ Suite 200 ■ Melbourne Florida 32901 ■ Tel.(321) 984-1671 ■ Fax.(321) 984-0366

ACT M2M-1000-V Edge Sensor Platform

Aeronix—an Internet of Things Cloud and Equipment Infrastructure Provider

DESCRIPTION

The Aeronix M2M-1000-V edge device is a Verizon certified CDMA/GPS sensor management and control unit with flexible and secure cloud-based monitoring and configuration capabilities. In combination with the Aeronix Machine2Cloud Management Server an ecosystem is enabled with the ability to quickly and seamlessly manage an array of M2M based sensors for your commercial, industrial, agricultural or military applications.

KEY FEATURES

- Flexible PCB module with industrial and waterproof enclosure options
- Fast 3G encrypted data transfer
- ARM Cortex™ microcontroller based design
- Internal Li-Po battery for extended operation between charges
- Integrated 3-axis accelerometer, GPS sensor, temperature sensor and analog/digital input/output
- Support for external analog and digital sensor integration
- Cloud based sensor monitoring and control with interactive dashboard
- Support for interface of customer enterprise software systems
- Supports OTA firmware upgrades

SPECIFICATIONS

Device	**110mm x 55mm x 30mm rugged, aluminum enclosure** **175mm x 90mm x 40mm IP67 rated plastic enclosure** **Soft On/Off button, Status LED's, USB charging port, Sensor interface**
Cellular Network	**Verizon CDMA network**
GPS	**L1 band, Assisted-GPS, Anti-jamming, Active antenna**
Antennas	**CDMA: Internal cabled PCB antenna, external low profile whip options** **GPS: Internal or external cabled high gain active patch**
Accelerometer	**3-Axis, ±2g precision**
Temperature Sensor	**Internal -25°C to 65°C**
Battery / Power	**1600mA Li-Po long life, rechargeable battery with protection circuitry** **5V 1A Micro USB port for charging (typical 1-2 hour charge time)** **Battery monitoring and status**
Sensor Interface	**RS232/422/485, analog inputs, analog output, digital output**
Environment	**Operating -20°C to +60°C** **Storage -40°C to +85°C** **IP67 rated for plastic enclosure option (including ports)**
Supported Sensors	**AC Current sensing: 0-20A, ±2%, CR Magnetics current probe** **Temperature: 0-50°C , ±2% (additional temp. ranges available)** **Passive IR: 12m range, Panasonic PIR sensor** **Airflow: 0-3m/s, MEMS based Omron sensor**
Certifications	**FCC, IC compliant** **Verizon (OD Device pending)**
Application Software	**Web based dashboard for configuration and monitoring** **Set threshholds, check-in times, alerts** **Notification via SMS texts or email alerts** **Dashboard customization service available**

AERONIX

535 N. Pleasantburg Drive ■ Suite 114 ■ Greenville, SC 29607 ■ Tel.(864) 250-1950
1775 West Hibiscus Boulevard ■ Suite 200 ■ Melbourne Florida 32901 ■ Tel.(321) 984-1671 ■ Fax.(321) 984-0366