

COM1000

The COM1000™ Industrial Internet Appliance™ is a unique blend of Serial and IP networking protocols, digital and analog inputs, and pre-compiled applications all combined to help eliminate many of today's more complicated Machine-to-Machine deployment challenges.

Packed with value

Designed to simplify remote communications and data collection, the COM1000 comes well-equipped with over **150** applications, managing everything from dial-up modem and network connectivity, to digital and analog event capture & alerts, serial-to-IP data conversion, data and event logging, remote file transfer, and much, much more. And unlike some M2M hardware offerings, the COM1000 is not a development platform; there's no SDK to buy, no scripting language to learn or binaries to re-compile. Just connect your sensor or serial device, select an application, and you're ready to deploy. It's really just that simple.

Monitor from anywhere – anytime you want

The COM1000 has the embedded network connectivity intelligence you've been looking for. Connectivity choices include Ethernet, dialup, remote access server, or ALL of these together. And when it comes to wireless, your choices are endless. The COM1000 can interface with any 802.11 Ethernet adapter (wireless bridge), as well as any private radio, satellite, or 3G cellular data modem, including both Ethernet and serial devices for GSM, GPRS, CDMA, 1X, EvDO, and iDen. This *'any network, any carrier, any modem'* approach is what enables the COM1000 to be seamlessly integrated into both new and existing dialup, LAN, WAN, or wireless architectures.

Broad Applications

With it's ability to provide legacy device connectivity and input events over any network, the COM1000 is a perfect fit for a variety of fixed and mobile data applications, including:

- Agriculture
- AVL/Vehicle Tracking
- Construction
- Energy Management Systems
- Environmental Monitoring
- Homeland Security/Public Safety
- Hospitality/Restaurant
- Marine Security
- Retail Applications
- Security Applications
- Telecom Management
- Intelligent Transportation
- Water/Wastewater Monitoring
- Utility Services



Specifications:

Configuration

AT Commands
MS Windows® Utility

Protocols

Ethernet, IP, UDP, TCP, NTP, PPP, DNS, DDNS, ICMP, FTP, SMTP, HTTP, Telnet, Syslog, IMPP

3G Cellular Support

Circuit-switched, SMS, GSM, GPRS, EDGE, CDMA, 1x, EvDO, iDen.

Network Interfaces

(1) RJ45 10BaseT Ethernet
PPP over RS232 DTE

Serial Interfaces

(1) RS232 DB9F DCE
(1) RS232 DB9M DTE
(1) RS485 Terminal Block

Serial Port Specs

Baud: 300 – 115200 bps
Parity: None, Odd, Even
Stop Bits: 1, 2
Data Bits: 7, 8
FC: HW, XOn/XOff, None

Real-Time Clock

Yes; Synched via NTP

Physical Dimensions

(H x W x D)
1.4" x 5.45" x 7.46"

Weight

1.3 lbs

Enclosure Material

18 GA CRS

Environmental

Operating Temp
40° to +85° C (70° C Ethernet)

Humidity

5–95% Non-condensing

Digital Input Specs

(4) Dry Contact Inputs
5VDC sourcing digital inputs
(internal 1KOhm resistor)
<1.5V Close; >3.5V Open

Analog Input Specs

(1) Analog Input
Resolution: 12-bit
Accuracy:
± 0.03 % of FS @ 25°C
± 0.12 % of FS @ -40 – +85°C

Relay Output Specs

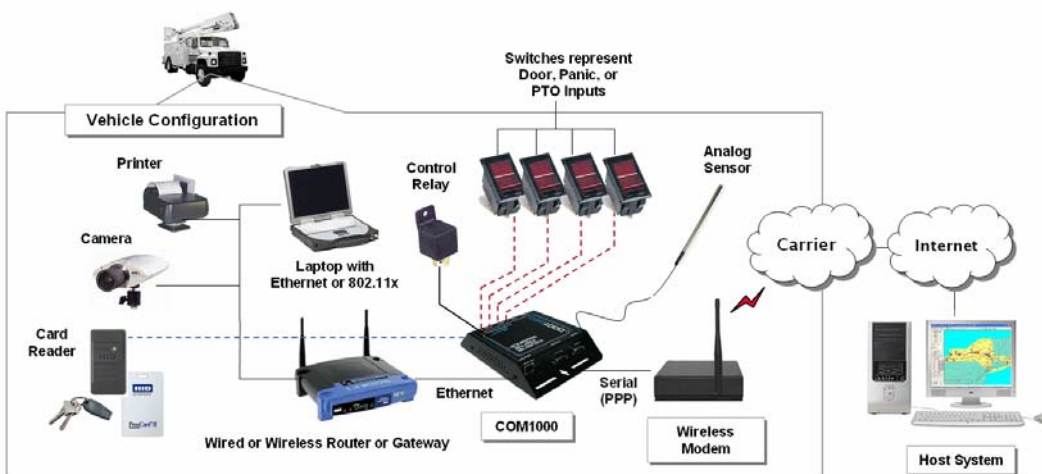
(1) Relay Output
120VAC/1A and 24VDC/2A

Power Management

Power Input: 9-30VDC
Typical: 200mA @12VDC



Machine-To-Machine – Simplified



COM1000

Connection Options and Embedded Applications

Connection Options:	Embedded Applications
<p>IP Networking Related Options: Ethernet Interface (Static public or private IP) Modem Port Interface</p> <ul style="list-style-type: none"> • Automatic PPP Dialer to ISP or wireless modem/radio (Dial-on-Demand or Always-On) • Inbound PPP Dialup – (RAS) • IP Forwarding (Support for IP FWD to and from LAN/WAN interfaces) • Support for Dynamic DNS <p>Display device status using command line interface:</p> <ul style="list-style-type: none"> • I/O states, levels, counts, and via HTTP • I/O states, levels, counts, and logs TCP • I/O states, levels, counts, and logs UDP • I/O states, levels, counts, and logs IM <p>RS232 Interface Connection Options: Serial device server functionality available via:</p> <ul style="list-style-type: none"> • Circuit-switched dialup • PPP Dialup • PPP RAS • TCP Connection to Configurable Port • UDP Connection to Configurable Port • Instant Message Connection (AOL IM) <p>RS485 Interface Connection Options: RS-485 device server functionality available via:</p> <ul style="list-style-type: none"> • Circuit-switched dialup • PPP Dialup • PPP RAS • TCP Connection to Configurable Port • UDP Connection to Configurable Port • Instant Message Connection (AOL IM) <p>Relay Activation/De-activation Options: Control relay based on a user-defined schedule; AUTO On/Off timer; and user-initiated command via dialup or IP.</p>	<p>RS232/485 Interfaces: Actions based on arrival of data on RS232 or RS485 ports:</p> <ul style="list-style-type: none"> • Send serial stream via UDP Packet • Send serial stream via TCP Packet • Send serial stream via SMTP Message • Send serial stream via SMS Message • Send serial stream as file to remote server via FTP • Send serial stream to external device on modem port • Send serial stream to external device on RS485 port • Trigger on serial stream to force Relay OPEN • Trigger on serial stream to force Relay CLOSED • Store serial stream data to LOG <p>Digital and Analog Input Events: Actions based on change to inputs or set points:</p> <ul style="list-style-type: none"> • Send custom event to external device on RS232 port • Send custom event to external device on RS485 port • Send custom event via UDP • Send custom event message via TCP • Send custom event message via SMTP • Send custom event message via SMS • Send info as file to remote server via FTP • Trigger on event to force Relay OPEN • Trigger on event to force Relay CLOSED • LOG input event and retain in storage buffer • COUNT input event and retain in storage buffer <p>Scheduled Events:</p> <ul style="list-style-type: none"> • POLL external device on RS232 interface (ASCII/HEX) • POLL external device on RS485 interface (ASCII/HEX) • LOG Input states to storage buffer • LOG Input counts to storage buffer • Send device LOG to remote server via FTP or Syslog • Send device LOG to remote server via SMTP • Send device status to remote server via FTP or Syslog • Send current device status via SMTP or SMS • Ping to remote IP to test/maintain PPP connection state

Support for Application Service Provider (ASP) platforms and custom application requirements available.

COM1000 Dimensions

