



iAdaptor™, M2M's proven data gateway handles the collection, storage, and communication of data from remote facilities.

The iAdaptor is being used in a number of business critical industrial applications where high availability, predictable performance, and the ability to hold up to rugged remote environments are key.

iAdaptor supports numerous protocols and interfaces directly to field instruments, electricity meters, equipment control panels, EFMs, RTUs and PLCs. Simply connect iAdaptor to the existing equipment to be monitored or controlled via Ethernet, serial, analog, digital and KYZ connections. Once powered up, iAdaptor connects to the M2M Data Center automatically eliminating the need for costly on-site programming.

iAdaptor incorporates reliable industrial hardware with a robust embedded OS. M2M application software handles all communications, data processing (including report-by-exception) and security.

The nature of M2M's unique web based approach enables remote diagnostics and software maintenance.

The iAdaptor (as with all M2M products and services) is backed by M2M's Service Level Guarantee.

- ▶ Rugged, platform solution enables drop-in monitoring and control in the most demanding field environments
- ▶ Available in several configurations (with options) to accommodate nearly every requirement
- ▶ Fully integrated and pre-tested
- ▶ Serial and Ethernet communications
- ▶ Compatible with all M2M satellite communications options
- ▶ Optional I/O board (analog and digital)
- ▶ TCP/IP protocol

Monitor • Know how your remote assets are operating

Manage • Use the knowledge to manage your assets

Optimize • Lower costs & increase profits

Specifiaction

- ▶ AMD 80188-40 embedded CPU or compatible
- ▶ Supports a variety of TCP/IP features, including TCP, UDP, IP, ICMP,ARP
- ▶ 10BASE-T NE2000 compatible Ethernet Controller
- ▶ Reloadable Operating Software
- ▶ Remote Configuration
- ▶ Diagnostics
- ▶ 64-bit hardware unique serial number inside
- ▶ COM driver support interrupt & 1K QUEUE Input & Output buffer
- ▶ COM port: COM1, COM2,
- ▶ Built-in RTC, NVRAM, EEPROM
- ▶ User defined 14 I/O lines
- ▶ Built-in I/O expansion bus interface (supports one I/O board only)
- ▶ Built-in self-tuner ASIC controller on RS-485 port
- ▶ Built-in operating system
- ▶ Program download port: COM1 or Ethernet Port
- ▶ CPU: Am188TMES, 40M Hz or compatible
- ▶ SRAM:
- ▶ 512K or 256K bytes depending on configuration
- ▶ Optional battery backup SRAM I/O expansion Boards
- ▶ X607: 128K bytes;
- ▶ X608: 512K bytes
- ▶ Flash Memory: 512K bytes; Erase unit is one sector (64K bytes);100,000 erase/write cycles
- ▶ NVRAM: 31 bytes, battery backup, data valid up to 10 years
- ▶ EEPROM: 2048 bytes (8 blocks, each block has 256 bytes); Data retention > 100 years; 1,000,000 erase/write cycles
- ▶ Real Time Clock
- ▶ Year-2000 compliance; seconds, minutes, hours, date of the month
- ▶ Month, year, valid up from 1980 to 2079
- ▶ Ethernet port: 10Base-T
- ▶ COM1: RS-232: TXD, RXD, RTS, CTS, GND
- ▶ COM2: RS-485: D1+, D1-, self-tuner ASIC inside
- ▶ Communication speed: 115,200 bps max.
- ▶ User defined I/O pins: 14
- ▶ Operating temperature: -25°C to +75°C
- ▶ Storage temperature: -40°C to +80°C
- ▶ Power requirements: 10 to 30VDC (non-regulated)
- ▶ Power consumption: 2.0W or 3.0W depending on configuration

Options

- ▶ NEMA 4 and 4X enclosures
- ▶ Solar power systems

