

# Industrial 3G Serial Modems

## Models ICO-MDM3Gx

### General Description

The ICO-MDM3Gx are compact, industrial serial 3G cellular modems. They are the perfect solution for M2M applications facing tough environmental conditions and extended lifetime requirements. They have been designed with features and accessories to ease integration with industrial equipment such as PLC's, meters, elevators, or vehicle-mounted equipment.

Available models include modems approved for CDMA and HSDPA Quadband. Carrier approvals for AT&T, Verizon, Rogers and others has been obtained.

External SMA antenna ports optimize reception and coverage. Package includes modem, antenna, power supply, serial and USB cables.

Modems can be connected to any SoftPLC by a serial or USB connection. Modems are pre-configured with selected cell plans and deployed for use with SoftPLC and TagWell applications. Optional accessories include antenna extension cables, outdoor antennas, and amplifiers.



### Features

- ◆ Supports multiple frequency bands
- ◆ Built-in GPS
- ◆ SMA antenna connectors (1 cellular, 1 GPS)
- ◆ SIM card externally accessible (-HSDPA only)
- ◆ Rugged aluminum alloy enclosure, DIN-rail mount bracket included
- ◆ Small size ~ 2.47" x 2.36" x .86"
- ◆ RS-232 / USB 2.0 interface
- ◆ AT command set compatible
- ◆ FCC, PTCRB, and carrier approvals
- ◆ One year warranty

### Specifications Overview

| Model Suffix             | -3GCDMA  | -3GHSDPA   |
|--------------------------|--|--|
| Carrier                  | Verizon  | AT&T, T-Mobile, Rogers, Telstra, YES Optus, NTT Docomo                     |
| Cellular Technology      | CDMA2000 1X<br>800/1900MHz   | Quadband/class 10/class 12<br>850/1900MHz, 900/2100MHz,<br>800/850/2100MHz |
| Operating Temperature    | -40 to 85°C  |  |
| SIM Card (HSDPA only)    | 1.8V/3.0V, externally accessible   |  |
| Enclosure                | Aluminum Alloy, DIN-rail mountable   |  |
| Connectors               | 15-pin sub-D, 4-pin power supply, SMA cellular & GPS antenna (50Ω), mini-USB female (slave only) |  |
| Size, Weight             | 2.47 x 2.36 x .86" ( 62.8 x 60 x 21mm); 90 grams   |  |
| Operating Voltage        | 5 ~ 32VDC in   |  |
| Approvals/Certifications | FCC, PTCRB; CE & A-Tick  |  |