

## 3G Cellular Ethernet/Serial/USB Gateway

The IPn3G provides a secure industrial strength wireless solution using the 3G network infrastructure for critical data communications. The IPn3G features "Secure Communications" with its Integrated Firewall, IPSec / VPN Tunneling, IP and MAC Access Control Lists. It supports Ethernet, USB, and serial RS232 and RS485 data traffic.

Firewall / ACL

IPSec / VPN, GRE

Industrial Temperature

Low Power

2 Serial RS232/485 Ports

USB 2.0



The IPn3G provides a communications hub bringing together serial (RS232 and RS485), Ethernet, and USB channels into a single box. It provides secure, reliable communications where needed. It features flexible maintenance utilities, secure Firewall, Access Control Lists, IPSec / VPN and Network Management Utilities.

## Features of the IPn3G

- Fast 3G / HSPA Operation
- 7.2Mbps Downlink / 5.76 Mbps Uplink
- Firewall with ACL Security
- IPSec, GRE / VPN Tunneling
- DMZ and Port Forwarding
- Low Power Consumption
- 2 Serial Com Ports, 1 USB Port, and 1 Ethernet Port
- High Power (up to 2W on 850/900 MHz Bands)
- Wide Operating Temperature (-40°C to +85°C)
- User interface via local console, telnet, web browser
- · Local and remote wireless firmware upgradable



## IPn3G Specifications **HSPA & Quad Band GSM** 7-30VDC Supported Bands Input Voltage 850/1900/1700-2100 MHz (HSPA) 12-24 VAC (optional) 850/900/1800/1900 MHz (GSM) Running: 90mA - 200mA Power **HSPA Data Features** Consumption @ 12V Up to 7.2 Mbps downlink Up to 5.76 Mbps uplink **Connectors:** Antenna SMA Female x3 (TX/RX, Diversity, EDGE/GPRS Multi-Slot Class 12 GPS) HSPA - Class 3 (0.25W) **TX Power** RJ-45 (Ethernet) GSM 850/900 MHz - Class 4 (2W) Female DB9 GSM 1800/1900 MHz - Class 1 (1W) Mini-USB EDGE 850/900 MHz - Class E2 (0.5W) EDGE 1800/1900 MHz - Class E2 (0.4W) SIM 1.8 / 3.0V 1 x RS232 (300 baud to 921k) Serial Interface **Environmental** 1 x RS232/422/485 (2/4 wire) 300bps to 921kbps Operating Temperature -40°C to +85°C **Serial Baud Rate** -40°F to +185°F Serial Port Server Extensive Serial Port Support. 5-95%, noncondensing TCP server & client / UDP server & client / Humidity Modus /PPP / SMS / SMTP / AT command Weight Approx. 235 grams 2 Communication Port with Extensive RS232/485/422 support **Dimensions** Approx. 2.25" x 3.85" x 1.5" **USB** USB 2.0 (57mm x 98mm x 45mm) **USB Console Port** USB to Serial Data Routing USB to Ethernet Data Routing (NDIS) PTCRB Approved **Approvals** FCC **Ethernet** 10/100 BaseT, Auto - MDI/X IC **IEEE 802.3** Carrier Specific Approvals **GPS GPS Server GPS UDP Reporting** Order Options Dial on Demand, PAP, CHAP, **Carrier Connection** Idle Time, ICMP Keep Alive, DDNS, IP pass--C1D2 Class 1 Div 2 (for use in hazardous through environments) TCP, UDP, TCP/IP, ARP, ICMP, DHCP, **Network Protocols** HTTP, SNMP, FTP, DNS, Serial over IP 12-24 VDC / VAC 50/60Hz -AC VPN, IPSec with IKE/ISAKMP; Multiple tun-Security nel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling L2TP, GRE, HTTPS NAT, NAT-T VPN tunneling, Port forwarding, **Firewall** VPN/GRE pass-through; Access control lists (IP filtering), Data origin / integrity Authentication, DMZ Management Local Serial Port Console, Telnet, WebUI, SNMP, Wireless Upgrade, RADIUS authentication, AT Command Interface

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RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Reporting



**Diagnostics**