

## 4G/LTE Dual Ethernet Bridge/Serial Gateway

The IPn4Gii-GL provides a secure, industrial strength wireless solution using the ultra fast 4G LTE network infrastructure for critical data communications. The IPn4Gii-GL provides features such as Global LTE Band Support, Dual Ethernet Ports, 3x Serial ports, Digital I/O and Dual SIM Card slots. Offering enhanced, "Secure Communication" with its integrated Firewall, IPSec VPN Tunneling, IP/MAC Access Control Lists, the IPn4Gii-GL really can do everything!

4G LTE

Firewall / ACL

Multi WAN Failover

Dual Ethernet

Programmable I/O

3 - Serial Ports



## Features

- Ultra Fast 4G LTE Operation w/ Global Band Support
- Up to 150 Mbps Downlink / 50 Mbps Uplink Over Air
- IP Pass-through Mode
- Data Usage Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- Digital I/O - 8 Analog Inputs/Outputs or 8 Digital Outputs
- IPSec, GRE / VPN Tunneling
- 2 x Serial Data/Console Ports (RS232), 1 Data Port (RS485)
- 2 x 10/100 Ethernet Ports (PoE on WAN Port)
- Multi WAN Failover
- USB OTG Port (Host, Console, NDIS, Serial Data)
- Standalone GPS (TCP Server, UDP Reporting, SMTP)
- SMS Support: Serial, Ethernet (Telnet), Alerts
- Wide Operating Temperature (-40°C to +85°C)
- User interface via local console, telnet, web browser
- Microhard NMS Support



# IPn4Gii-GL

# Specifications

|                                                          |                                                                                                                                                                                                                                                        |                      |                                                                                                                                                                                                                                  |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supported Bands</b>                                   | LTE FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13, B18,B19,B20,B26,B28<br>TDD: B38,B39,B40,B41<br>WCDMA: B1,B2,B4,B5,B8,B6,B19<br>GSM: B2/B3/B5/B8                                                                                                                 | <b>Firewall</b>      | NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ                                                                            |
| <b>Cellular Data Features*</b>                           | LTE FDD: Up to 150 Mbps DL, 50 Mbps UL<br>LTE TDD: Up to 130 Mbps DL, 35 Mbps UL<br>DC-HSPA+: Up to 42 Mbps DL, 5.7 Mbps UL<br>WCDMA: Up to 384 Kbps DL, 384 Kbps UL<br>EDGE: Up to 296 Kbps DL, 236.8 Kbps UL<br>GSM: Up to 107 Kbps DL, 85.6 Kbps UL | <b>Management</b>    | Local Serial Port Console, Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Serial/Telnet), Scheduled Reboots, Microhard NMS Support, Data Usage Alerts, Power Saving Modes |
| <small>*Module Standalone Laboratory Performance</small> |                                                                                                                                                                                                                                                        | <b>Diagnostics</b>   | RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow                                                                                                                        |
| <b>Serial Interface</b>                                  | 1 x RS232 Data (Full Support)<br>1 x RS232 Console/Data (TX/RX)<br>1 x RS485 Data (2/4 wire)                                                                                                                                                           | <b>Input Voltage</b> | 7 - 30VDC or,<br>Passive PoE over WAN port (Optional)                                                                                                                                                                            |
| <b>Serial Baud Rate</b>                                  | 300bps to 921kbps                                                                                                                                                                                                                                      | <b>Connectors:</b>   | Antenna 3x SMA Female (Cell, Cell Div, GPS)<br>Data 1x RP-SMA Female (Ant3)<br>2x RJ-45 (Ethernet)<br>6 PIN Interlock (RS485)<br>10 PIN Interlock (RS232/Digital I/O)<br>DB9 RS232<br>USB Micro-AB<br>SIM 2x 1.8 / 3.0V (2FF)    |
| <b>Serial Port Server</b>                                | -Extensive Serial Port Support:<br>TCP Server & Client / UDP Server & Client / Modus / PPP / SMS / SMTP / AT command<br>-(2) Com Ports with Extensive RS232/485/422 support                                                                            | <b>Environmental</b> | Operating Temperature -40°C to +85°C<br>-40°F to +185°F<br>Humidity 5-95%, non-condensing                                                                                                                                        |
| <b>Ethernet</b>                                          | 2x 10/100 BaseT, Auto - MDI/X IEEE 802.3                                                                                                                                                                                                               | <b>Weight</b>        | Approx. 225 grams                                                                                                                                                                                                                |
| <b>Digital I/O</b>                                       | 8x Analog Input/Output or 8x Digital Outputs                                                                                                                                                                                                           | <b>Dimensions</b>    | Approx. 2.25" x 3.85" x 1.5"<br>(57mm x 98mm x 45mm)                                                                                                                                                                             |
| <b>USB (OTG)</b>                                         | USB 2.0<br>USB Console Port<br>USB to Serial Data Routing<br>USB to Ethernet Data Routing (NDIS)<br>USB OTG (Host)                                                                                                                                     | <b>Approvals</b>     | FCC / IC<br>PTCRB<br>UL Hazloc<br>Carrier Specific Approvals                                                                                                                                                                     |
| <b>GPS</b>                                               | Standalone GPS<br>GPS Server<br>GPS UDP Reporting<br>GPS SMTP Reporting (Email)                                                                                                                                                                        | <b>Order Options</b> |                                                                                                                                                                                                                                  |
| <b>SMS</b>                                               | SMS to/from Serial RS232/485<br>SMS to/from Ethernet via Telnet<br>SMS Alerts<br>SMS Remote Reboots                                                                                                                                                    | <b>Model</b>         | IPn4Gii-GL                                                                                                                                                                                                                       |
| <b>Carrier Connection</b>                                | Dial on Demand, PAP, CHAP, Idle Time, ICMP Keep Alive, DDNS<br>IP pass-through, Wireless Connection Timeout.                                                                                                                                           |                      |                                                                                                                                                                                                                                  |
| <b>Network Protocols</b>                                 | TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial)                                                                                                                                                     |                      |                                                                                                                                                                                                                                  |
| <b>Security</b>                                          | VPN, IPSec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling<br>L2TP, GRE, HTTPS, RADIUS                                                                                                    |                      |                                                                                                                                                                                                                                  |

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