

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

The IPn4Gii provides a feature rich, secure industrial strength wireless solution using the new and ultra fast 4G LTE network infrastructure for critical data communications. The IPn4Gii takes things to the next level by providing features such as Dual Ethernet Ports, Three Serial ports, 8x 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 really can do everything!

4G LTE

Firewall / ACL

Multi WAN Failover

Dual Ethernet

Programmable I/O

3 - Serial Ports



## Features

- Certified for use on Verizon Wireless
- Ultra Fast 4G LTE Operation
- Up to 100Mbps 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 & Load Balancing
- USB OTG Port (Host, Console, NDIS, Serial Data)
- Standalone GPS (TCP Server, UDP Reporting, SMTP)
- Wide Operating Temperature (-40°C to +85°C)
- User interface via local console, telnet, web browser
- Microhard NMS Support



# IPn4Gii-V1G

# Specifications

<b>LTE Features</b>	Category 3 50 Mb/s UL, 100 Mb/s DL FDD Bands 4, 13 3GPP Release 9 FDD channel bandwidth 1.4 - 20 MHz MIMO 2x2 Rx diversity	<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>Serial Interface</b>	1 x RS232 Data (Full Support) 1 x RS232 Console/Data (TX/RX) 1 x RS485 Data (2/4 wire)	<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
<b>Serial Baud Rate</b>	300bps to 921kbps	<b>Diagnostics</b>	RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
<b>Serial Port Server</b>	-Extensive Serial Port Support: TCP Server & Client / UDP Server & Client / Modus / PPP / SMS / SMTP / AT command -(2) Com Ports with Extensive RS232/485/422 support	<b>Input Voltage</b>	7 - 30VDC or, Passive PoE over WAN port
<b>Ethernet</b>	2x 10/100 BaseT, Auto - MDI/X IEEE 802.3	<b>Connectors:</b>	Antenna 3x SMA Female (Cell, Cell Div, GPS) 1x RP-SMA Female (Ant3) Data 2x RJ-45 (Ethernet) 6 PIN Interlock (RS485) 10 PIN Interlock (RS232/Digital I/O) DB9 RS232 USB Micro-AB SIM 2x 1.8 / 3.0V
<b>Digital I/O</b>	8x Analog Input/Output or 8x Digital Outputs	<b>Environmental</b>	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
<b>USB (OTG)</b>	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing (NDIS) USB OTG (Host)	<b>Weight</b>	Approx. 225 grams
<b>GPS</b>	Standalone GPS GPS Server GPS UDP Reporting GPS SMTP Reporting (Email)	<b>Dimensions</b>	Approx. 2.25" x 3.85" x 1.5" (57mm x 98mm x 45mm)
<b>SMS</b>	SMS to/from Serial RS232/485 SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	<b>Approvals</b>	FCC IC Verizon Wireless
<b>Carrier Connection</b>	Dial on Demand, PAP, CHAP, Idle Time, ICMP Keep Alive, DDNS IP pass-through, Wireless Connection Time-out.	<b>Order Options</b>	
<b>Network Protocols</b>	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial)	<b>Model</b>	MHS116900 - IPn4Gii-V1G MHS116910 - IPn4Gii-V1G-C1D2
<b>Security</b>	VPN, IPsec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling L2TP, GRE, HTTPS, RADIUS	<b>-C1D2</b>	Class 1 Div 2 (for use in hazardous environments)

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