

## LTE CAT 12 600 Mbps Dual Ethernet Bridge/Serial Gateway

The IPn4Gii-CAT12 provides a secure, industrial strength wireless solution that uses LTE Advanced & Carrier Aggregation Technology to deliver fast LTE connections with download speeds of up to 600 Mbps! The IPn4Gii-CAT12 provides features such as Global Band Support, Dual Gigabit 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-CAT12 really can do everything!

CAT12 600 Mbps LTE

Firewall / ACL

Multi WAN Failover

Dual Gigabit Ethernet

Programmable I/O

3 - Serial Ports



## Features

- Ultra Fast CAT12 LTE Operation w/ Global Band Support
- Up to 600 Mbps Downlink / 150 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 10/100/1000 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-CAT12 Specifications

<b>Supported Bands</b> LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21/B25/B26/B28/B29/B30/B32/B66; LTE-TDD: B38/39/B40/B41 WCDMA: B1/B2/B3/B4/B5/B8/B9/B19  DL 2×CA: B1+3/5/18/19/20/26; B2+2/4/5/12/13/17/29/30/66; B3+3/5/7/8/19/20/28; B4+4/5/12/13/17/29/30; B5+7/30/66; B7+7/20/28; B12+30; B13+66; B19+21; B20+B32; B29+30; B38+38; B39+39; B39+39; B39+41; B40+40; B41+41; B66+66, 12, 29, 30, 5; B2+B14; B14+B30; B14+B66;  DL 3×CA: DL inter-band 3CA: B1+3+5/7/8/19/20/28; B1+7+20; B2+4+5; B2+4+13, B2+5+30; B2+12+30; B2+29+30, B3+7+20, B3+7+28, B3+7+8, B4+5+30, B4+12+30, B4+29+30, B5+66+2, B13+66+2; B66+12+30; B66+29+30, B66+5+30; B2+B14+B66; DL 2 intra-band plus inter-band 3CA: B2+2+5; B2+2+13; B3+3+7; B3+7+7; B3+3+20; B3+3+28; B3+3+1; B4+4+5; B4+4+13; B7+7+28; B5+66+66; B13+66+66; B66+66+2; B39+B39+B41; B39+B41+B41; B14+B66+B66 DL 3 intra-band 3CA: B40+40+40; B41+41+41; B66+66+66  UL 2×CA: B3+3; B41+41	<b>Carrier Connection</b> ICMP Keep Alive, DDNS, IP pass-through, Wireless Connection Timeout.
<b>Cellular Data Features*</b> <small>*Module Standalone Laboratory Performance</small> LTE-FDD: Max 600Mbps (DL), Max 150Mbps (UL) LTE-TDD: Max 430Mbps (DL), Max 30Mbps (UL) UMTS: DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL), Max 384Kbps (UL)	<b>Network Protocols</b> TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial)
<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>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>Serial Baud Rate</b> 300bps to 921kbps	<b>Firewall</b> NAT, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin/integrity Authentication, DMZ
<b>Serial Port Server</b> Extensive Serial Port Support: TCP Server & Client / UDP Server & Client / Modus / PPP / SMS / SMTP / AT command	<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>Ethernet</b> 2x 10/100 BaseT, Auto - MDI/X IEEE 802.3	<b>Diagnostics</b> RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
<b>Digital I/O</b> 8x Analog Input/Output or 8x Digital Outputs	<b>Input Voltage</b> 7 - 30VDC or, Passive PoE over WAN port (Optional)
<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>Connectors:</b> Antenna: 3x SMA Female (Cell, Cell Div, GPS) Data: 1x RP-SMA Female (Ant3) 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 (2FF)
<b>GPS</b> GNSS Systems: TCP/UDP/Email Reporting, GpsGate, TAIP GPS Protocols: GLONASS, BeiDou & Galileo Acquisition Sensitivity: NMEA 0183 V3.0 Tracking Sensitivity: -145 dBm (Cold-start) Accuracy: -160 dBm (Open Sky/Active-patch Antenna) Standalone time to first fix: <2m CEP-50 (Open sky, 1 Hz tracking) Total number of SVs: 1s/29s/32s (hot/warm/cold) ~55 SVs	<b>Environmental</b> Operating Temperature: -40°C to +85°C Humidity: -40°F to +185°F 5-95%, non-condensing
<b>SMS</b> SMS to/from Serial RS232/485 SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	<b>Weight</b> Approx. 225 grams
	<b>Dimensions</b> Approx. 2.25" x 3.85" x 1.5" (57mm x 98mm x 45mm)
	<b>Approvals</b> FCC / IC PTCRB UL Hazloc (C1D2) Carrier Specific Approvals

## Order Options

**Model** IPn4Gii-CAT12

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