

## LTECube-CAT4NA2 150 Mbps CAT4 LTE IoT Ethernet Gateway

The LTECube-CAT4NA2 was engineered for the small size, low cost, and power requirements of the IoT & M2M applications that are growing across the globe. The LTECube-CAT4NA2 provides robust and reliable CAT4 LTE with speeds up to 150 Mbps. The LTECube-CAT4NA2 features Gigabit Ethernet, USB 2.0, Standalone GPS, and powerful VPN/GRE Tunneling Capabilities.

**CAT4 - 150 Mbps LTE**

**Compact Design**

**Low Cost!**

**Gigabit Ethernet**

**IPv6 & IPv4 Support**

**USB 2.0 Port**



**New! Optional 802.3af POE Support!**

## Features

- USB Powered (5V, 1.5A)
- Fast & Robust CAT4 LTE Operation
- Engineered for IoT Applications
- Low Cost & Low Power Consumption
- Up to 150 Mbps Downlink / 50 Mbps Uplink Over Air
- Data Usage & Systems Alerts (Email, SMS)
- 1x Programmable Analog/Digital Input or 1x Digital Output\*
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec (IKEv1/IKEv2), GRE / VPN Tunneling
- 10/100/1000 Ethernet w/PoE
- Full IPv6 & IPv4 Support
- MQTT Support
- LWM2M Support
- Wide Operating Temperature (-40°C to +85°C)
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS & IoT Portal Support

**Only 1.75" x 1.75" x 1.35"!**



Can be USB powered!

# LTECube-CAT4NA2 Specifications

<b>Supported Bands</b>	LTE FDD: B2,B4,B5,B12,B13,B14,B66,B71 WCDMA: B2,B4,B5	<b>Diagnostics</b>	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
<b>Cellular Data Features*</b>	LTE FDD: Up to 150 Mbps DL, 50 Mbps UL LTE TDD: Up to 130 Mbps DL, 35 Mbps UL DC-HSPA+: Up to 42 Mbps DL, 5.7 Mbps UL WCDMA: Up to 384 Kbps DL, 384 Kbps UL	<b>I/O*</b>	1x Programmable Analog/Digital Input or 1x Digital Output <small>*Only on devices built Nov 2022 onwards</small>
<small>*Module Standalone Laboratory Performance</small>		<b>Input Voltage</b>	5 - 30V <sub>DC</sub> PoE (Passive, Max 24V) USB Powered (5V, 1.5A)
<b>Ethernet</b>	10/100/1000, Auto - MDI/X IEEE 802.3	<b>Input Voltage (AF Option)</b>	802.3af PoE Support (7 to 60V <sub>DC</sub> )
<b>USB</b>	USB 2.0 USB Tethering	<b>Connectors:</b>	Antenna 3x SMA Female (Main, Diversity, GPS) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V
<b>SMS</b>	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	<b>Environmental</b>	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
<b>Carrier Connection</b>	ICMP Keep Alive, DDNS	<b>Weight</b>	Approx. 105 grams
<b>GPS</b>	TCP Server, UDP/Email Reporting, GpsGate	<b>Dimensions</b>	Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)
Navigation Update Rate	Up to 5 Hz	<b>Approvals</b>	FCC/IC PTCRB RoHS Compliant
Accuracy	Position: 2.5 m CEP SBAS: 2.0 m CEP		
Acquisition	Cold Starts: 27 seconds Aided Started: 4 seconds Hot Starts: 1 seconds		
Sensitivity (Active/Passive Antenna)	Tracking : -159 dBm Cold Starts: -147 dBm Hot Starts: -156 dBm		
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), MQTT		
<b>Security</b>	VPN, IPSec (IKEv2/IKEv2/ISAKMP); Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP, Open VPN), GRE, HTTPS, RADIUS	<b>Order Options</b>	
<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>CA-MHK119430</b>	LTECube-CAT4NA2
<b>Management</b>	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, LWM2M, Data Usage Alerts, SSH	<b>MHK119432</b>	LTECube-CAT4NA2-Kit w/Acc Kit
		<b>-AF</b>	802.3af PoE

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