

150 Mbps CAT4 LTE IoT Ethernet Gateway with 802.11 WIFI

The LTECubeCAT4 was engineered for the small size, low cost, and power requirements of the IoT & M2M applications that are growing across the globe. The LTECubeCAT4-NA2-WIFI provides robust and reliable CAT4 LTE with speeds up to 150 Mbps. The LTECubeCAT4-NA2-WIFI features 10/100 Ethernet, High Power 802.11 WIFI, USB 2.0, Standalone GPS, and powerful VPN/GRE Tunneling Capabilities.

CAT4 - 150 Mbps LTE

802.11 WIFI

High Power WIFI (1W)

10/100 Ethernet

IPv6 & IPv4 Support

USB 2.0 Port



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
- Enterprise Class WIFI (more than 200 clients!)
- High Power 1W WIFI
- Data Usage & Systems Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec, GRE / VPN Tunneling
- 10/100 Ethernet w/PoE
- Full IPv6 & IPv4 Support
- MQTT Support
- Wide Operating Temperature (-40°C to +85°C)
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS Support

Only 1.75" x 1.75" x 1.35"!



LTECubeCAT4-NA2-WIFI Specifications

Supported Bands	LTE FDD: B2,B4,B5,B12,B13,B14,B66,B71 WCDMA: B2,B4,B5	Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ																																				
Cellular Data Features*	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	Management	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, Data Usage Alerts, SSH																																				
<i>*Module Standalone Laboratory Performance</i>		Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow																																				
Ethernet	10/100, Auto - MDI/X IEEE 802.3	Input Voltage	5 - 30VDC PoE (Passive, Max 24V) USB Powered (5V, 1.5A)																																				
WiFi Features	802.11b/g/n (2.4 GHz)	Connectors:	Antenna 3x SMA Female (Main, Diversity, GPS) 1x RPSMA Female (WiFi) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V																																				
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USB	USB 2.0 USB Tethering	Weight	Approx. 105 grams																																				
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	Dimensions	Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)																																				
Carrier Connection	ICMP Keep Alive, DDNS	Approvals	FCC/IC PTCRB RoHS Compliant																																				
GPS	TCP Server, UDP/Email Reporting, GpsGate	Order Options																																					
Navigation Update Rate	Up to 5 Hz	Models	LTECubeCAT4-NA2-WIFI																																				
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																																						
Network Protocols	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), MQTT																																						
Security	VPN, IPSec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP, Open VPN), GRE, HTTPS, RADIUS																																						

Contact Information

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LTECube-CAT12 - 600 Mbps LTE Advanced Ethernet Gateway

The LTECube-CAT12 was engineered for applications that require a robust & compact device that delivers high bandwidth capabilities. The LTECube-CAT12 uses CAT12 LTE Advanced with 3x Carrier Aggregation to deliver speeds up to 600 Mbps download and 150 Mbps upload. The LTECube-CAT12 features Gigabit Ethernet, USB, Standalone GPS, and secure VPN/GRE tunneling capabilities.

LTE Advanced CAT12

600/150 Mbps DL/UL

Standalone GPS

Gigabit Ethernet

IPv6 & IPv4 Support

USB 2.0 Port



Only 1.75" x 2.10" x 1.35"!

Features

- 7-58V_{DC} or PoE (802.3af) powered
- Fast & Robust CAT12 LTE Advanced Operation
- 3x Carrier Aggregation
- Up to 600 Mbps Download / 150 Mbps Upload Speeds
- Data Usage & Systems Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec, GRE / VPN Tunneling
- 10/100/1000 Ethernet
- Full IPv6 & IPv4 Support
- MQTT Support
- Wide Operating Temperature (-40°C to +85°C)
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS Support



LTECube-CAT12 Specifications

Supported Bands	<p>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</p> <p>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;</p> <p>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</p> <p>UL 2×CA: B3+3; B41+41</p>	Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ														
		Management	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, Data Usage Alerts, SSH														
		Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Neflow														
		Input Voltage	7 - 58VDC PoE (802.3af)														
		Connectors:	<table border="0"> <tr> <td>Antenna</td> <td>3x SMA Female (Main, Diversity, GPS)</td> </tr> <tr> <td>Data</td> <td>RJ-45 (Ethernet)</td> </tr> <tr> <td></td> <td>4 PIN Interlock (Vin)</td> </tr> <tr> <td>USB</td> <td>Micro-AB</td> </tr> <tr> <td>SIM</td> <td>Nano (4FF) 1.8 / 3.0V</td> </tr> </table>	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				
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Cellular Data Features*	<p>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)</p>	Weight	Approx. 125 grams														
<small>*Module Standalone Laboratory Performance</small>		Dimensions	Approx. 1.75" x 2.10" x 1.35" (45mm x 54mm x 35mm)														
Ethernet	10/100/1000, Auto - MDI/X IEEE 802.3	Approvals	FCC/IC RoHS Compliant														
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LTECube-M - CAT M1/NB-IoT LTE Cube Gateway

The LTECube-M was engineered specifically for the small size, low cost, and low power requirements of the IoT & M2M applications that are surging across the globe. The LTECube-M provides robust and reliable LTE Category M1/NB-IoT connections with speeds up to 375 kbps. The LTECube-M features Ethernet, USB, and Tunneling Capabilities all while retaining low power consumption.

LTE CATM - 375 kbps

NB-IoT

Low Cost!

Optional WIFI

IPv6 & IPv4 Support

USB 2.0 Port



Only 1.75" x 1.75" x 1.35"!

Features

- Robust & Reliable LTE CATM Operation
- Engineered for IoT Applications
- Low Cost & Ultra Low Power Consumption
- Up to 375 kbps Download / 375 kbps Upload
- Data Usage & Systems Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec, GRE / VPN Tunneling
- 10/100 Ethernet
- Optional Enterprise Class WiFi (more than 200 clients)
- High Power 1W WiFi (Long Range)
- Full IPv6 & IPv4 Support
- MQTT Support
- Wide Operating Temperature (-40°C to +85°C)
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS Support



Can be USB powered!

LTE³-M

Specifications

Supported Bands	3GPP Release 13 LTE Cat M1 Half-Duplex LTE NB1 Half-Duplex LTE FDD Bands: B12(700), 17(700), 28(700), 13(700), 20(800), 26(850), 5(850), 19(850), 8(900), 4(1700), 3(1800), 2(1900), 25(1900) LTE TDD Bands: 39(1900)	Input Voltage	5 - 30VDC PoE (Passive - Max 24V) USB Powered (5V, 1.5A)																																				
Cellular Data Features* <small>*Module Standalone Laboratory Performance</small>	LTE Category M1: - up to 375 kbps UL - up to 375 kbps DL LTE Category NB1: - up to 62.5 kbps UL - up to 27.2 kbps DL	Connectors:	Antenna SMA Female Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V																																				
WiFi Features <small>(WiFi Optional)</small>	802.11b/g/n (2.4 GHz)	Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing																																				
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