

## 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<sub>DC</sub> 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(IKEv1/IKEv2), 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

<b>Supported Bands</b>	<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>	<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>Management</b>	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, Data Usage Alerts, SSH														
		<b>Diagnostics</b>	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow														
		<b>Input Voltage</b>	7 - 58VDC PoE (802.3af)														
		<b>Connectors:</b>	<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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<b>Cellular Data Features*</b>	<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>	<b>Weight</b>	Approx. 125 grams														
<small>*Module Standalone Laboratory Performance</small>		<b>Dimensions</b>	Approx. 1.75" x 2.10" x 1.35" (45mm x 54mm x 35mm)														
<b>Ethernet</b>	10/100/1000, Auto - MDI/X IEEE 802.3	<b>Approvals</b>	FCC/IC RoHS Compliant														
<b>USB</b>	USB 2.0 USB Tethering	<b>Order Options</b>															
<b>SMS</b>	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	<b>MHK119480</b> LTECube-CAT12															
<b>Carrier Connection</b>	ICMP Keep Alive, DDNS																
<b>GPS</b>	TCP/UDP/Email Reporting, GpsGate, TAIP																
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<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(IKEv1/IKEv2/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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