

## LTE CAT M1/NB2-IoT Gateway

The LTECube-CATM-G2 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-CATM-G2 provides robust and reliable LTE Category M1/NB2-IoT connections with upload speeds up to 1119kbps and downloads of up to 588kbps. The LTECube-CATM-G2 features Ethernet, USB, and VPN/GRE Tunneling Capabilities all while retaining low power consumption.

**LTE CAT M1**

**NB2-IoT**

**Low Cost!**

**Optional WIFI**

**IPv6 & IPv4 Support**

**PoE (802.3af)**

# LTE<sup>3</sup>-CATM-G2



**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 1119 kbps Upload / 588 kbps Download
- 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 & IoT Portal Support



# LTE<sup>3</sup>-CATM-G2

# Specifications

<b>Supported Bands</b>	LTE CAT M1 / CAT NB2 / EGPRS			<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
	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26(M1 Only)/B27 (M1 Only)/B28/B31*/B66/B71 (NB2 Only)/B72*/B73*/B85			<b>Diagnostics</b>	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
	EGPRS: 850/900/1800/1900MHz			<b>Input Voltage</b>	7 - 58VDC PoE (802.3af)
<b>Cellular Data Rates*</b>	LTE Cat M1:	Max. 588 kbps (DL) Max. 1119 kbps (UL)		<b>Connectors:</b>	Antenna SMA Female Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V
	LTE Cat NB1:	Max. 32 kbps (DL) Max. 70 kbps (UL)		<b>Environmental</b>	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
	LTE Cat NB2:	Max. 127 kbps (DL) Max. 158.5 kbps (UL)		<b>Weight</b>	Approx. 100 grams
	EDGE:	Max. 296 kbps (DL) Max. 236.6 kbps (UL)		<b>Dimensions</b>	Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)
	GPRS:	Max. 107 kbps (DL) Max. 85.6 kbps (UL)		<b>Approvals</b>	FCC/IC Carrier Specific Approvals
<small>*Module Standalone Laboratory Performance</small>					
<b>WiFi Features</b> <small>(WiFi Optional)</small>	802.11b/g/n (2.4 GHz)				
<b>WiFi Performance</b> <small>(WiFi Optional)</small>	<b>Rate</b>	<b>Mode</b>	<b>Tx (dBm) Rx (dBm)</b>		
	1 Mbps	b	30 -97 ± 1		
	11 Mbps	b	30 -92 ± 1		
	6 Mbps	g	30 -94 ± 1		
	54 Mbps	g	26 -75 ± 1		
	MCS0	n (HT20)	30 -96 ± 1		
	MCS7	n (HT20)	26 -75 ± 1		
	MCS0	n (HT40)	30 -94 ± 1		
	MCS7	n (HT40)	26 -73 ± 1		
<b>Ethernet</b>	10/100 BaseT, Auto - MDI/X IEEE 802.3				
<b>USB</b>	USB 2.0 Tethering				
<b>SMS</b>	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots				
<b>Carrier Connection</b>	ICMP Keep Alive, DDNS				
<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 with IKE/ISAKMP; Multiple tunnel support; 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP, Open VPN), GRE, HTTPS, RADIUS				
<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				

## Order Options

**Models**  
 LTECube-CATM-G2  
 LTECube-CATM-G2-Kit  
 LTECube-CATM-G2-WIFI  
 LTECube-CATM-G2-WIFI-Kit

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