

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																																				
WiFi Performance <small>(WiFi Optional)</small>	<table border="1"> <thead> <tr> <th>Rate</th> <th>Mode</th> <th>Tx (dBm)</th> <th>Rx (dBm)</th> </tr> </thead> <tbody> <tr> <td>1 Mbps</td> <td>b</td> <td>30</td> <td>-97 ± 1</td> </tr> <tr> <td>11 Mbps</td> <td>b</td> <td>30</td> <td>-92 ± 1</td> </tr> <tr> <td>6 Mbps</td> <td>g</td> <td>30</td> <td>-94 ± 1</td> </tr> <tr> <td>54 Mbps</td> <td>g</td> <td>26</td> <td>-75 ± 1</td> </tr> <tr> <td>MCS0</td> <td>n (HT20)</td> <td>30</td> <td>-96 ± 1</td> </tr> <tr> <td>MCS7</td> <td>n (HT20)</td> <td>26</td> <td>-75 ± 1</td> </tr> <tr> <td>MCS0</td> <td>n (HT40)</td> <td>30</td> <td>-94 ± 1</td> </tr> <tr> <td>MCS7</td> <td>n (HT40)</td> <td>26</td> <td>-73 ± 1</td> </tr> </tbody> </table>	Rate	Mode	Tx (dBm)	Rx (dBm)	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	Weight	Approx. 90 grams
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Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Dimensions	Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)																																				
USB	USB 2.0 Tethering	Approvals	FCC/IC PTCRB Carrier Specific Approvals																																				
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	Order Options																																					
Carrier Connection	ICMP Keep Alive, DDNS	Models	LTECube-CATM LTECube-CATM-Kit LTECube-CATM-WIFI LTECube-CATM-WIFI-Kit																																				
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																																						
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, Netflow																																						

Contact Information

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