

LTECube-1- IoT 10Mbps CAT1 LTE Cube Gateway

The LTECube-1 was engineered specifically for the small size, low cost, and low power requirements of the IoT & M2M applications that are booming across the globe. The LTECube-1 provides robust and reliable CAT1 LTE connections with speeds of up to 10 Mbps. The LTECube-1 features Ethernet, USB 2.0, and Tunneling Capabilities all while retaining ultra low power consumption.

CAT1 - 10 Mbps LTE

Optional WIFI

Low Cost!

Ethernet Port

IPv6 & IPv4 Support

USB 2.0 Port



LTE³-1

Features

- USB Powered (5V, 1.5A)
- Fast & Robust CAT1 LTE Operation
- Engineered for IoT Applications
- Low Cost & Ultra Low Power Consumption
- Up to 10 Mbps Downlink / 5 Mbps Uplink Over Air
- 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

Only 1.75" x 1.75" x 1.35"!



Can be USB powered!

LTE³-1

Specifications

| Supported Bands North America / AT&T / T-Mobile LTE CAT1: Bands 2,4,5,12 UMTS/HSPA: Bands 2,5 Verizon LTE CAT1: Bands 4,13 | | Current Consumption (@12VDC) Typical: 40mA ~ 120mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|--|----------|----------|----------|--------|---|----|---------|---------|---|----|---------|--------|---|----|---------|---------|---|----|---------|------|----------|----|---------|------|----------|----|---------|------|----------|----|---------|------|----------|----|---------|---|
| Cellular Data Features* LTE CAT1: DL Up to 10Mbps, UL Up to 5Mbps <small>*Module Standalone Laboratory Performance</small> | | Input Voltage 7 - 30VDC PoE (Passive, Max 24V) USB Powered (5V, 1.5A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WiFi Features <small>(WiFi Optional)</small> 802.11b/g/n (2.4 GHz) | | Connectors: Antenna 2x SMA Female (Main, Diversity) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | Environmental Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing |
| Rate | Mode | Tx (dBm) | Rx (dBm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ethernet 10/100 BaseT, Auto - MDI/X IEEE 802.3 | | Weight Approx. 95 grams | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB USB 2.0 USB (Device) | | Dimensions Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMS SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots | | Approvals FCC/IC PTCRB Carrier Specific Approvals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carrier Connection ICMP Keep Alive, DDNS | | Order Options | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Protocols IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), MQTT | | Models LTECube-CAT1-AT1 LTECube-CAT1-AT1-Kit LTECube-CAT1-AT1-WIFI LTECube-CAT1-AT1-WIFI-Kit LTECube-CAT1-VZ1 LTECube-CAT1-VZ1-Kit LTECube-CAT1-VZ1-WIFI LTECube-CAT1-VZ1-WIFI-Kit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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