

## LTECube-CAT12 - 600Mbps LTE高级以太网网关

LTECube-CAT12 是专为需要稳定紧凑的设备提供高带宽能力的应用而设计的。

LTECube-CAT12 使用CAT12 LTE 先进的 3x 载波聚合，提供高达600Mbps的下载速度和150Mbps的上传速度。

LTECube-CAT12 具有千兆以太网、USB、独立GPS和安全VPN/GRE隧道功能。

*LTE 先进 CAT12*

*600/150 Mbps DL/UL*

*独立 GPS*

*千兆以太网*

*支持 IPv6 & IPv4*

*USB 2.0 端口*



只有 **1.75" x 2.10" x 1.35"**!

### 特性

- 7-58V<sub>DC</sub> 或 PoE (802.3af) 供电
- 快速稳健的CAT12 LTE高级运营
- 3x 载波聚合
- 高达600Mbps下载 / 150Mbps上传速度
- 数据使用量和系统警报(电子邮件, 短信)
- ACL 安全防火墙, DMZ & 端口转发
- IPSec(IKEv1/IKEv2), GRE / VPN 隧道
- 10/100/1000 以太网
- 完全支持 IPv6 & IPv4
- 支持 MQTT
- 宽工作温度范围 (-40°C to +85°C)
- 通过SSH或HTTP/HTTPS web浏览器的用户界面
- 支持 Microhard NMS



# LTECube-CAT12 特性

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                               |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 支持频段                                      | <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;<br/>LTE-TDD: B38/39/B40/B41<br/>WCDMA: B1/B2/B3/B4/B5/B8/B9/B19</p> <p>DL 2×CA:<br/>B1+3/5/18/19/20/26; B2+2/4/5/12/13/17/29/30/66;<br/>B3+3/5/7/8/19/20/28; B4+4/5/12/13/17/29/30;<br/>B5+7/30/66; B7+7/20/28; B12+30; B13+66; B19+21;<br/>B20+B32; B29+30; B38+38; B39+39;<br/>B39+39; B39+41; B40+40; B41+41; B66+66, 12, 29, 30, 5;<br/>B2+B14; B14+B30; B14+B66;</p> <p>DL 3×CA:<br/>DL inter-band 3CA:<br/>B1+3+5/7/8/19/20/28; B1+7+20; B2+4+5; B2+4+13;<br/>B2+5+30; B2+12+30; B2+29+30; B3+7+20; B3+7+28;<br/>B3+7+8; B4+5+30; B4+12+30; B4+29+30; B5+66+2;<br/>B13+66+2; B66+12+30; B66+29+30; B66+5+30;<br/>B2+B14+B66;<br/>DL 2 intra-band plus inter-band 3CA:<br/>B2+2+5; B2+2+13; B3+3+7; B3+7+20; B3+3+28;<br/>B3+3+1; B4+4+5; B4+4+13; B7+7+28;<br/>B5+66+66; B13+66+66; B66+66+2; B39+B39+B41;<br/>B39+B41+B41; B14+B66+B66<br/>DL 3 intra-band 3CA:<br/>B40+40+40; B41+41+41; B66+66+66</p> <p>UL 2×CA:<br/>B3+3; B41+41</p> | <p>防火墙</p> <p>NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ</p>       |
| 蜂窝数据特性*                                   | <p>LTE-FDD: Max 600Mbps (DL), Max 150Mbps (UL)<br/>LTE-TDD: Max 430Mbps (DL), Max 30Mbps (UL)<br/>UMTS:<br/>DC-HSDPA: Max 42Mbps (DL)<br/>HSUPA: Max 5.76Mbps (UL)<br/>WCDMA: Max 384Kbps (DL), Max 384Kbps (UL)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>管理</p> <p>Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, Data Usage Alerts, SSH</p> |
| *Module Standalone Laboratory Performance |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>诊断</p> <p>RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow</p>                                                             |
| 以太网                                       | 10/100/1000, Auto - MDI/X IEEE 802.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>输入电压</p> <p>7 - 58VDC<br/>PoE (802.3af)</p>                                                                                                                                |
| USB                                       | USB 2.0<br>USB Tethering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>接口:</p> <p>天线数据 3x SMA Female (Main, Diversity, GPS)<br/>RJ-45 (Ethernet)<br/>4 PIN Interlock (Vin)<br/>USB Micro-AB<br/>SIM Nano (4FF) 1.8 / 3.0V</p>                     |
| SMS                                       | SMS to/from Ethernet via Telnet<br>SMS Alerts<br>SMS Remote Reboots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>环境参数</p> <p>工作温度 -40°C to +85°C<br/>湿度 -40°F to +185°F<br/>5-95%, non-condensing</p>                                                                                       |
| Carrier Connection                        | ICMP Keep Alive, DDNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>重量</p> <p>大约 125 克</p>                                                                                                                                                     |
| GPS                                       | TCP/UDP/Email Reporting, GpsGate, TAIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>尺寸</p> <p>Approx. 1.75" x 2.10" x 1.35"<br/>(45mm x 54mm x 35mm)</p>                                                                                                       |
| GNSS系统                                    | GLONASS, BeiDou & Galileo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>认证</p> <p>FCC/IC<br/>RoHS Compliant</p>                                                                                                                                    |
| GPS 协议                                    | NMEA 0183 V3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                               |
| 接收灵敏度                                     | -145 dBm (Cold-start)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |
| 跟踪灵敏度                                     | -160 dBm (Open Sky/Active-patch Antenna)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                               |
| 精度                                        | <2m CEP-50 (Open sky, 1 Hz tracking)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |
| Standalone time to first fix              | 1s/29s/32s (hot/warm/cold)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |
| Total number of SVs                       | ~55 SVs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                               |
| 网络协议                                      | IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), MQTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                               |
| 安全                                        | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                               |

## Order Options

**MHK119480** LTECube-CAT12

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