

LTECubeCAT4-GL-WIFI CAT4 LTE IoT Ethernet Gateway w/WIFI

The LTECubeCAT4-GL-WIFI was engineered for the small size, low cost, and power requirements of the IoT & M2M applications that are growing across the globe. The LTECubeCAT4-GL-WIFI provides robust and reliable 150 Mbps CAT4 LTE connections. The LTECubeCAT4-GL-WIFI features 10/100 Ethernet, Enterprise class 802.11 WIFI, USB, and powerful VPN/GRE Tunneling Capabilities.

CAT4 - 150 Mbps LTE

Compact Design

802.11 WIFI

10/100 Ethernet

IPv6 & IPv4 Support

USB 2.0 Port



Features

- Fast & Robust CAT4 LTE Operation
- Engineered for IoT Applications
- Nano SIM + eSIM (Optional)
- Up to 150 Mbps Downlink / 50 Mbps Uplink Over Air
- Data Usage & Systems Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec, GRE / VPN Tunneling
- 10/100 Ethernet w/PoE
- Enterprise Class WIFI (more than 200 clients!)
- High Power 1W WIFI
- Full IPv6 & IPv4 Support
- MQTT Support
- Wide Operating Temperature (-40°C to +85°C)
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS2 & Microhard IoT Portal Support

Only 1.75" x 1.75" x 1.35"!



LTECubeCAT4-GL-WIFI Specifications

Supported Bands	LTE FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13, B18,B19,B20,B26,B28 TDD: B38,B39,B40,B41 WCDMA: B1,B2,B4,B5,B8,B6,B19 GSM: B2/B3/B5/B8		Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ																																												
Cellular Data Features*	LTE FDD: Up to 150 Mbps DL, 50 Mbps UL LTE TDD: Up to 130 Mbps DL, 35 Mbps UL DC-HSPA+: Up to 42 Mbps DL, 5.7 Mbps UL WCDMA: Up to 384 Kbps DL, 384 Kbps UL EDGE: Up to 296 Kbps DL, 236.8 Kbps UL GSM: Up to 107 Kbps DL, 85.6 Kbps UL		Management	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, Data Usage Alerts, SSH																																												
*Module Standalone Laboratory Performance			Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow																																												
WiFi Features	802.11b/g/n (2.4 GHz)		Input Voltage	7 - 30VDC PoE (Passive, Max 24V)																																												
WiFi Performance	<table><tr><th>Rate</th><th>Mode</th><th>Tx (dBm)</th><th>Rx (dBm)</th></tr><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></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	Connectors:	<table><tr><td>Antenna</td><td>3x SMA Female (Main, Diversity, GPS) 1x RPSMA Female (WIFI)</td></tr><tr><td>Data</td><td>RJ-45 (Ethernet) 4 PIN Interlock (Vin)</td></tr><tr><td>USB</td><td>Micro-AB</td></tr><tr><td>SIM</td><td>Nano (4FF) + eSIM (Optional)</td></tr></table>	Antenna	3x SMA Female (Main, Diversity, GPS) 1x RPSMA Female (WIFI)	Data	RJ-45 (Ethernet) 4 PIN Interlock (Vin)	USB	Micro-AB	SIM	Nano (4FF) + eSIM (Optional)
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Ethernet	10/100, Auto - MDI/X IEEE 802.3		Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing																																												
USB	USB 2.0 USB Tethering		Weight	~105 grams																																												
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots		Dimensions	~1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)																																												
Carrier Connection	ICMP Keep Alive, DDNS		Approvals	FCC/IC PTCRB RoHS																																												
GPS	TCP Server, UDP/Email Reporting, GpsGate		Order Options																																													
Navigation Update Rate	Up to 5 Hz																																															
Accuracy	Position: 2.5 m CEP SBAS: 2.0 m CEP																																															
Acquisition	Cold Starts: 27 seconds Aided Started: 4 seconds																																															
Sensitivity (Active/Passive Antenna)	Hot Starts: 1 seconds Tracking : -159 dBm Cold Starts: -147 dBm Hot Starts: -156 dBm																																															
Network Protocols	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), MQTT		CA-MHK119440 MHK119442	LTECubeCAT4GL-WIFI LTECubeCAT4GL-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																																															

Order Options

CA-MHK119440 LTECubeCAT4GL-WIFI
MHK119442 LTECubeCAT4GL-WIFI-Kit

Contact Information

Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

Email: info@microhardcorp.com
Tel: (403) 248-0028
Fax: (403) 248-2762

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