

150 Mbps CAT4 LTE IoT Ethernet Gateway with 802.11 WIFI

The LTECubeCAT4 was engineered for the small size, low cost, and power requirements of the IoT & M2M applications that are growing across the globe. The LTECubeCAT4-NA2-WIFI provides robust and reliable CAT4 LTE with speeds up to 150 Mbps. The LTECubeCAT4-NA2-WIFI features 10/100 Ethernet, High Power 802.11 WIFI, USB 2.0, Standalone GPS, and powerful VPN/GRE Tunneling Capabilities.

CAT4 - 150 Mbps LTE

802.11 WIFI

High Power WIFI (1W)

10/100 Ethernet

IPv6 & IPv4 Support

USB 2.0 Port



Features

- USB Powered (5V, 1.5A)
- Fast & Robust CAT4 LTE Operation
- Engineered for IoT Applications
- Low Cost & Low Power Consumption
- Up to 150 Mbps Downlink / 50 Mbps Uplink Over Air
- Enterprise Class WIFI (more than 200 clients!)
- High Power 1W WIFI
- Data Usage & Systems Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec, GRE / VPN Tunneling
- 10/100 Ethernet w/PoE
- 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"!



LTECubeCAT4-NA2-WIFI Specifications

Supported Bands	LTE FDD: B2,B4,B5,B12,B13,B14,B66,B71 WCDMA: B2,B4,B5	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	Management	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Telnet), Microhard NMS Support, Data Usage Alerts, SSH																																				
<i>*Module Standalone Laboratory Performance</i>		Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow																																				
Ethernet	10/100, Auto - MDI/X IEEE 802.3	Input Voltage	5 - 30VDC PoE (Passive, Max 24V) USB Powered (5V, 1.5A)																																				
WiFi Features	802.11b/g/n (2.4 GHz)	Connectors:	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) 1.8 / 3.0V																																				
WiFi Performance	<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
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USB	USB 2.0 USB Tethering	Weight	Approx. 105 grams																																				
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	Dimensions	Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)																																				
Carrier Connection	ICMP Keep Alive, DDNS	Approvals	FCC/IC PTCRB RoHS Compliant																																				
GPS	TCP Server, UDP/Email Reporting, GpsGate	Order Options																																					
Navigation Update Rate	Up to 5 Hz	Models	LTECubeCAT4-NA2-WIFI																																				
Accuracy	Position: 2.5 m CEP SBAS: 2.0 m CEP																																						
Acquisition	Cold Starts: 27 seconds Aided Started: 4 seconds Hot Starts: 1 seconds																																						
Sensitivity (Active/Passive Antenna)	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																																						
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																																						

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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