

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.



Only 1.75" x 1.75" x 1.35"!

Features

- 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) 802.11 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 IoT & NMS2 Support

LTE CAT4 - 150 Mbps

High Power 802.11 WIFI

10/100 Ethernet

IPv6 & IPv4 Support

USB 2.0 Port

New! Optional 802.3af POE Support!



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		
*Module Standalone Laboratory Performance				Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow		
Ethernet	10/100, Auto - MDI/X IEEE 802.3			I/O*	1x Programmable Analog/Digital Input or 1x Digital Output		
WIFI Features	802.11b/g/n (2.4 GHz)			*Only on devices built August 2023 onwards			
WIFI Performance	Rate	Mode	Tx (dBm)	Rx (dBm)	Input Voltage	7 - 30VDC PoE (Passive, Max 24V)	
	1 Mbps	b	30	-97 ± 1	Input Voltage (-AF Option)	7 - 58VDC 802.3af PoE Support	
	11 Mbps	b	30	-92 ± 1	Connectors:	Antenna	3x SMA Female (Main, Diversity, GPS) 1x RPSMA Female (WIFI)
	6 Mbps	g	30	-94 ± 1		Data	RJ-45 (Ethernet) 4 PIN Interlock (Vin)
	54 Mbps	g	26	-75 ± 1		USB	Micro-AB
	MCS0	n (HT20)	30	-96 ± 1		SIM	Nano (4FF) 1.8 / 3.0V
	MCS7	n (HT20)	26	-75 ± 1	Environmental	Operating Temperature	-40°C to +85°C -40°F to +185°F
	MCS0	n (HT40)	30	-94 ± 1		Humidity	5-95%, non-condensing
	MCS7	n (HT40)	26	-73 ± 1	Weight	Approx. 105 grams	
USB	USB 2.0 USB Tethering			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 RoHS Compliant		
Carrier Connection	ICMP Keep Alive, DDNS			Order Options			
GPS	TCP Server, UDP/Email Reporting, GpsGate			MHK119455	LTECubeCAT4-NA2-WIFI		
Navigation Update Rate	Up to 5 Hz			MHK119457	LTECubeCAT4-NA2-WIFI-KIT		
Accuracy	Position:	2.5 m CEP		-AF	802.3af PoE		
	SBAS:	2.0 m CEP					
Acquisition	Cold Starts:	27 seconds					
	Aided Started:	4 seconds					
	Hot Starts:	1 seconds					
Sensitivity	Tracking :	-159 dBm					
(Active/Passive Antenna)	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 IKEv1/IKEv2; Multiple tunnel support; 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP, L2TPv3, Open VPN, GRE, HTTPS, RADIUS						

Order Options

MHK119455 LTECubeCAT4-NA2-WIFI
MHK119457 LTECubeCAT4-NA2-WIFI-KIT
-AF 802.3af PoE



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