

LTECube-CAT4NA2 150 Mbps CAT4 LTE IoT Ethernet Gateway

The LTECube-CAT4NA2 was engineered for the small size, low cost, and power requirements of the IoT & M2M applications that are growing across the globe. The LTECube-CAT4NA2 provides robust and reliable CAT4 LTE with speeds up to 150 Mbps. The LTECube-CAT4NA2 features Gigabit Ethernet, USB 2.0, Standalone GPS, and powerful VPN/GRE Tunneling Capabilities.

CAT4 - 150 Mbps LTE

Compact Design

Low Cost!

Gigabit Ethernet

IPv6 & IPv4 Support

USB 2.0 Port



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
- Data Usage & Systems Alerts (Email, SMS)
- 1x Programmable Analog/Digital Input or 1x Digital Output*
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec (IKEv1/IKEv2), GRE / VPN Tunneling
- 10/100/1000 Ethernet w/PoE
- Full IPv6 & IPv4 Support
- MQTT Support
- LWM2M Support
- Wide Operating Temperature (-40°C to +85°C)
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS & IoT Portal Support

Only 1.75" x 1.75" x 1.35"!



LTECube-CAT4NA2 Specifications

Supported Bands	LTE FDD: B2,B4,B5,B12,B13,B14,B66,B71 WCDMA: B2,B4,B5	Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
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	I/O*	1x Programmable Analog/Digital Input or 1x Digital Output
*Module Standalone Laboratory Performance		*Only on devices built Nov 2022 onwards	
Ethernet	10/100/1000, Auto - MDI/X IEEE 802.3	Input Voltage	7 - 30V _{DC} PoE (Passive, Max 24V)
USB	USB 2.0 USB Tethering	Connectors:	Antenna 3x SMA Female (Main, Diversity, GPS) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots		
Carrier Connection	ICMP Keep Alive, DDNS		
GPS	TCP Server, UDP/Email Reporting, GpsGate	Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
Navigation Update Rate	Up to 5 Hz	Weight	Approx. 105 grams
Accuracy	Position: 2.5 m CEP SBAS: 2.0 m CEP	Dimensions	Approx. 1.75" x 1.75" x 1.35" (45mm x 45mm x 35mm)
Acquisition	Cold Starts: 27 seconds Aided Started: 4 seconds Hot Starts: 1 seconds	Approvals	FCC/IC PTCRB RoHS Compliant
Sensitivity (Active/Passive Antenna)	Tracking : -159 dBm Cold Starts: -147 dBm Hot Starts: -156 dBm	Order Options MHK119430 LTECube-CAT4NA2 MHK119432 LTECube-CAT4NA2-Kit w/Acc Kit	
Network Protocols	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), MQTT		
Security	VPN, IPsec (IKEv2/IKEv2/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, LWM2M, Data Usage Alerts, SSH		

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