

## EV CELLULAR / WIFI ETHERNET COMS GATEWAY

The EV-LTE-WIFI is a outdoor solution with an integrated 110-240VAC power supply and equipped with a low profile 3-in-1 LTE/WIFI/GPS Antenna. The LTE connection provides robust 150 Mbps CAT4 LTE and features 10/100 Ethernet, High Power, Enterprise class 802.11n WIFI, and powerful VPN/GRE Tunneling Capabilities.

### EV Charger Cellular / WIFI Coms Box



LTE CAT4 - 150Mbps

Outdoor Enclosure

High Power 802.11n WIFI

110-240VAC Input Power

3-in-1 LTE/WIFI/GPS Antenna

10/100 Ethernet

### Features

- 110-240VAC Input Power
- Fast & Robust CAT4 LTE Operation
- Up to 150 Mbps Downlink / 50 Mbps Uplink Over Air
- 3-in-1 Antenna (LTE, WIFI, GPS)
- 10/100 Ethernet Port
- Weatherproof Enclosure
- IPSec, GRE / VPN Tunneling
- User interface via SSH or HTTP/HTTPS web browser
- Microhard NMS2 & Microhard IoT Portal Compatible
- UL HazLoc Certified

### Order Information

Model: EV-CAT4GL

Part Number: MHK119700

Description: EV LTE WIFI ETH GATEWAY CAT4GL OUTDOOR 110-240VAC



# Specifications

Cellular																																					
<b>Supported Bands</b>	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																																				
<b>Cellular Data Features*</b>	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																																				
<small>*Module Standalone Laboratory Performance</small>																																					
<b>SIM</b>	Nano (4FF) 1.8 / 3.0V																																				
WIFI Features																																					
<b>Modes</b>	802.11b/g/n (2.4 GHz)																																				
<b>Performance (2X2 MIMO)</b>	<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
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GPS																																					
<b>Reporting</b>	TCP/UDP/Email Reporting, GpsGate, TAIP																																				
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 Hot Starts: 1 seconds																																				
Sensitivity (Active/Passive Antenna)	Tracking : -159 dBm Cold Starts: -147 dBm Hot Starts: -156 dBm																																				
Ethernet Ports																																					
<b>LAN</b>	1x RJ45 Ethernet (10/100 Mbps), Auto—MDI/X IEEE 802.3																																				
Network																																					
<b>Carrier Connection</b>	ICMP Keep Alive, Traffic Watchdog, DDNS, Failover																																				
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Modbus Slave (TCP), Load Balancer																																				
<b>Security</b>	VPN, IPSec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, VPN Tunneling L2TP, GRE, Open VPN, HTTPS, RADIUS																																				
<b>Management</b>	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade, AT Command Interface (Serial/Telnet), Microhard NMS & IoT Support, Data Usage Alerts, SSH																																				
<b>Diagnostics</b>	RSSI, Ec/No, Remote diagnostics, UDP Event Reporting, SMS Alerts, Netflow																																				

Antenna	
<b>3-in-1 Puck Antenna (Main, WIFI, GPS)</b>	
<b>Frequency Range</b>	Main LTE: 698-960   1710-2700 MHz WIFI: 2400-2500   5150-5750 MHz GPS: 1575.42 ± 3 MHz
<b>Gain</b>	LTE Main: 3 dBi WIFI: 2.15 dBi GPS: 5dBi (Passive) / 28 ± 2 dB (Active)
<b>Output Impedance</b>	50 Ohm
<b>VSWR</b>	LTE: < 2.0 WIFI: < 2.5 GPS: < 2.5
<b>Polarization</b>	Linear
Input Voltage	
<b>Input</b>	110 - 240VAC  PoE (Passive, Max 24V)
Environmental	
<b>Operating Temp.</b>	-40°C to +85°C
<b>Humidity</b>	5-95%, non-condensing
Dimensions	
<b>Size</b>	~ 4.75" x 9.75" x 3.85" (120mm x 248mm x 98mm)
<b>Weight</b>	~1680 grams
Approvals	
<b>Regulatory</b>	FCC, IC/ISED PTCRB RoHS Compliant UL HazLoc
<b>Carrier</b>	Specific Carrier Approvals
Order Options	
<b>MHK119700</b>	EV LTE WIFI ETHERNET COMMS GATEWAY CAT4GL OUTDOOR 110-240VAC



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