



AC-1025

4G LTE Cellular Gateway



The AC-1025 4G LTE Cellular Gateway supports LTE, provides wireless network services, and has external GPS module and receiving antennas to collect vehicle track and real-time positioning data, so as to further understand vehicle operation status.

The AC-1025 is suitable for mobile and movable application scenarios, such as buses, railway, boat, ambulance...etc.

By LTE, AC-1025 is not only capable of providing wireless Internet to various devices on vehicle, like ticket machine, video processing data of IP-camera, and electronic sign, but also provide convenient and stable internet service to passengers.



Industry-standard Design

EN 50155 industry-standard approved, it is suitable for mobile application scenarios without causing equipment damage due to the impact of long time vibration. In addition, AC-1025 designed with Surge-protected PCBA, which prevent instantaneous voltage shock.



Quick, Easy, and Hassle-free Deployment

In terms of some scenarios that is difficult to integrate wire network, being capable of providing wireless network service by support LTE. It is especially suitable for mobile and movable application scenarios.



Central Management

Not only performing as a stand-alone access point, but also can be centrally managed by remote Wireless LAN Controllers, which also provides Wi-Fi user authentication, traffic shaping, user and bandwidth controls, and statistics reporting.



Optimize Management Efficiency

The data collected through GPS can be used to provide vehicle System Integrators as data base. For example, it can optimize the traffic flow, or calculate the exact arrived time to improve passengers' user experience.



Standards	IEEE 802.11b/g/n IEEE 802.11an/ac		
Radio Chains	2.4GHz: 2x2:2 5GHz: 3x3:3		
Supported Data Rates	802.11b: 1, 2, 5.5, 11 Mbps / 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 300Mbps / 802.11ac: 1300Mbps		
Frequency Bands		2.4GHz	5GHz
	US	2.412 – 2.462GHz	5.15GHz – 5.35GHz 5.47GHz – 5.85GHz
	EU	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.47GHz – 5.725GHz
	Japan	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.47GHz – 5.725GHz
	China	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.725GHz – 5.85GHz
	India	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.725GHz – 5.85GHz 5.85GHz – 5.875GHz
Operating Channels		2.4GHz	5GHz
	US	1 – 11	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140, 149, 153, 157, 161, 165
	EU	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140
	Japan	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144
	China	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165
	India	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165, 169, 173
Max. Transmit Power		2.4GHz	5GHz
		31dBm w/ 2 ant.	32.5dBm w/ 3 ant.
	*The maximum power setting will vary by channel and according to individual country regulations.		
GPS	GNSS System Supported (Module Type) $\leq \pm 10m$ <ul style="list-style-type: none"> USA GPS System Russia GLONASS System 		
LTE	<u>LTE bands (Module Type)</u> <ul style="list-style-type: none"> category 4 B3/B7/B8/B20 (EU, Asia, Africa) All channel bandwidths: 1.4 – 20 MHz MIMO 2x2 Rx diversity <u>UMTS/HSPA</u> <ul style="list-style-type: none"> B1/B8 <u>GSM Bands</u> <ul style="list-style-type: none"> 850/900/1800/1900MHz 		
Antenna	LTE		
	2*2.5dBi(External)	2.4 GHz: 8dBi (Embedded) 5GHz: 8.5dBi (Embedded)	

Interfaces	1 × 10/100/1000 Mbps RJ45 port 1 × Reset button 1 × USB (For G-Mouse) 1 × SIM card slot 1 × TF card socket (support 2G~32Gbit, speed class specification class 4/6/10) 1 × Power plug 2 × External LTE Antenna Connector		
Indicator	Power / WLAN / LAN / 3G/4G		
Supported Wireless LAN Controllers	WS5G2 / WS7G2 / WS10G2 / WS200G2 / WS500G2 / WS1000G2		
Power	Power Consumption	Power Input	
	19W	12V / 24V supplied by car battery	
Physical Characteristics	Dimensions	Weight	Mounting type
	220 (L) × 250 (D) × 54 (H) mm	500g	Ceiling / Wall mount
Environmental	Storage	Operating	
	Temperature: -20 – 70 °C Humidity: 10 – 95%	Temperature: -20 – 60 °C Humidity: 5 – 95% (non-condensing)	
Compliance Standards	Security: Open System WPA-PSK/WPA2-PSK 802.1x WPA(2) Advanced Encryption Standard (AES) Extensible Authentication Protocol (EAP) types: EAP-Transport Layer Security (TLS) EAP-Tunneled TLS (TTLS) Protected EAP (PEAP) EAP-Subscriber Identity Module (SIM)		
	EN301511 EN301908-1 EN300440 EN55322 & EN55024 EN 60950-1 EN 50155 NB (0560) E24 FCC CCAI16Z10010T2 Radio approvals: EN 300.328, EN301.893 (Europe) EMI and susceptibility (Class B) EN 301.489-1, -3, -7, -17, -24 IEEE standards: IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d IEEE 802.11ac Multimedia: Wi-Fi multimedia (WMM)		