CM520-8A/8V



Product Introduction

CM520-8A/8V is an industrial-grade vehicle-mounted wireless gateway with 1 WAN port and 4 LAN ports, and supports both WiFi LAN (802.11a/b/g/n/ac) communication and 5G/4G wireless communication functions. The device supports multiple VPNS and has the security and authentication functions of WiFi LAN transmission. It can realize the seamless connection between wireless LAN and wireless WAN and provide users with high-speed, safe and reliable mobile network services.



The product has a patented technology to maintain the stability of the system to ensure that the device is always online; the whole device adopts a metal shell, anti-interference and radiation protection, and industrial-grade design on the hardware.



The whole device is FCC, CE, RoHS, E-mark approved and has passed the electric shock test of 3000V, all the wireless modules have passed the GCF (Global), FCC, CE and other oversea certification. After strict design, testing and more than 15yrs of practical application, the product performance is stable and reliable.

Model No.

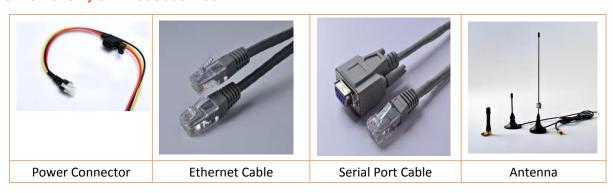
Model No.	Interface Type	Network	GPS/BEIDOU	Wi-Fi	Data Cache
CM520-8AF	RJ45	4G	Support	Support	Support
CM520-8AFS	RJ45	5G	Support	Support	Support
CM520-8VF	RJ45	4G	N/A	Support	Support
CM520-8VFS	RJ45	5G	N/A	Support	Support

Technical Parameters

Device Interface Diagram



CM520-8A/8V Accessories

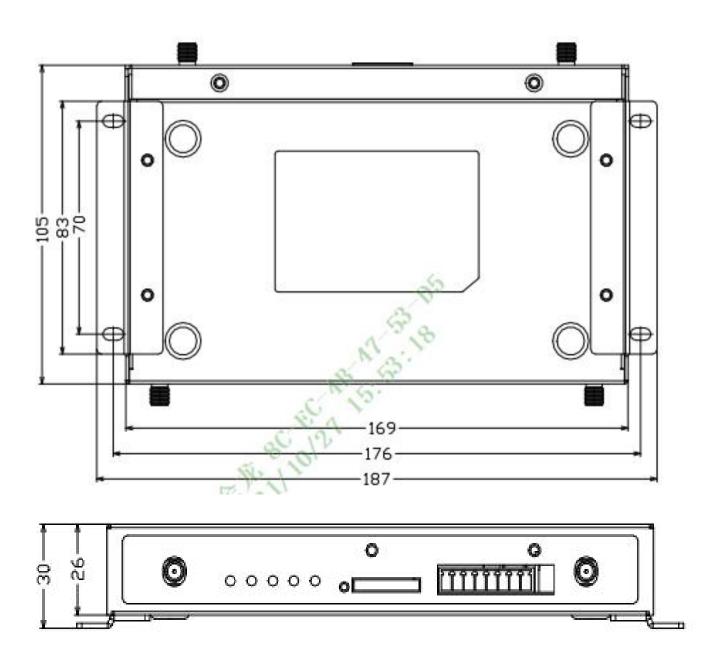


Model NO.	CM520-8A/8V			
Cellular Parameters				
Network	LTE-FDD/HSPA+/UMTS/HSDPA/HSUPA/WCDMA/EDGE/GSM			
Standards and Frequency Bands	EGSM 900 Power Class 4 2 W, 33 dBm			
	GSM 1800 / 1900 Power Class 1 1 W, 30 dBm			
	EDGE Power Class for 900MHz Class E21 27 dBm, 0.5 W			
	EDGE Power Class for 1800 / 1900MHz Class E21 26 dBm, 0.4 W			
	Others. (It depends on area and country.)			
Coding Scheme	HSPA+/ DC-HSPA+ / GPRS / EDGE			
Communication Bandwidth	100 Mbps DL within 20 MHz bandwidth			
	(Peak DL data rate in 10 MHz bandwidth: 70 Mbps (approx.) for Cat 3 device)			
	50 Mbps UL within 20 MHz bandwidth			
Transmit Power	<24dBm			
Receiver Sensitivity	<-109dBm			
Cellular Parameters				
Network	5G NR/LTE/HSPA+			

Wireless Module	Adopt industrial-grade wireless module			
0. 1 1 15	5G NR:n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79			
Standards and Frequency	LTE:b1/b2/b3/b4/b5/b7/b8/b12/b13/b14/b17/b20/b25/b26/b28/b29/			
Bands	b30/b38/b39/b40/b41/b42/b43/b46/b48			
Theoretical bandwidth	5G NR: DL 3.4Gbps, UL: 350Mbps			
	LTE Cat20: DL 2.0Gbps, UL: 150Mbps			
	HSPA+: DL 42Mpbs, UL: 5.76Mbps			
Transmit Power	<23dBm			
Transmit rower	<23dBM			
Receiver Sensitivity	<-97dBm			
	Advanced Features			
Working Mode	PPPoE / SIM(support APN/VPDN) / SWITCH / DHCP Client / Wi-Fi Client			
Wi-Fi	Mode 802.11 a/b/g/n			
VVI-FI	Encryption WEP / WPA-PSK(TKIP/AES) / WPA2-PSK(TKIP/AES)			
DDNS	Dyndns / 88ip / Oray			
Filter	IP Filter / MAC Address Filter / Application Filter(media/music/URL)			
DTU	Can be used as data transmitter unit.			
Firmware Upgrade	Local / Remote			
VPN	GRE / PPTP / IPSEC / L2TP / N2N / OPENVPN			
Protocol	TCP/IP UDP ICMP HTTP SMTP TELNET FTP			
NAT	<i>,</i>			
DMZ	· √			
UPNP	V			
Routing Table	V			
QoS	٧			
Flow Control	٧			
Remote Config	v .			
Restart Timer	v			
Firewall	V			
Web Config	V			
System Log	V			
Console	√ (Can be used as RS232)			
Vehicle Mounted	√ .			
GPS	CM520-8A Supports GPS			
AD Playing	√ · ·			
	Hardware System			
CPU	Industrial high performance embedded processing CPU, main frequency is 533MHz			
MMU	CPU with MMU memory management unit, can prevent memory overflow			
FLASH	16MB (expandable to 32MB)			
SDRAM	128MB			
	Operation System			
OS	Linux2.6			
	Interface Parameters			
LAN	4 10/100 Base-T. Ethernet IEEE 802-3, 802-2. Built-in 1.5kV electromagnetic isolation protection.			
WAN	1 WAN. Supports PPPoE.			
Serial Port	1 RS232(Console Port)			

	Data Bit	7/8		
	Stop Bit	1/2		
	Parity Bit NONE / ODD / EVEN / SPACE / MARK			
		erial Speed 110bps ~ 230400bps		
	Flow Contr			
Antenna		, ,		
	Standard SMA female interface, 50 Ohm			
UIM	1.8V/3V/5V standard putter user card interface, built-in 15KV ESD protection.			
USB TE Could	1 USB interface, USB2.0, HOST interface, 12 Mbps			
TF Card	1 ~ 32GB. 2 slots.			
Power	Standard 3-core locomotive power outlet			
Reset Button	Reset butto	n to restore factory settings		
	D.051/1 22	Power Supply		
Supply Voltage		V. Over-voltage protection. Power reverse protection		
Standard Power Supply	DC9V/1500			
Communication Current		mmunication Current: 390mA@+9VDC		
		nting Instantaneous Peak Current: 1.0A@+9VDC		
Standby Current	<56mA@+9			
		Physical Features		
		metal case, anti-radiation, anti-interference; shell and system security isolation,		
Shell		otection design; meet the power requirements of safety regulations; protection rating		
	IP30; particularly suit for harsh industrial control environments.			
Product Dimension	168*104*26mm(Antenna and fixer are not included)			
Package Size	350*215*8	8mm		
Weight	0.7kg			
		Wi-Fi Parameters		
Module	Adopt emb	edded WIFI module in chip, high integration, good stability		
Standard	802.11 a/b	g/n. Support 6/9/12/18/24/36/48/54Mbps. Up to 300Mbps		
Encryption	Support for	WAP encryption with built-in WAP and WAP 2.0, with 802.11I 4.0TKIP, AES and CCMP		
Eliciyption	hardware s	afety engine		
АР	٧			
Transmission Distance	outdoor co	outdoor coverage can reach 150 meters(with an open environment)		
		Other Parameters		
Operating Temperature	-25ºC ~	+65ºC		
Extended	-35ºC ~	+75ºC		
Operating Temperature	33-0	173-0		
Storage Temperature	-40ºC ~ +85ºC			
Relative Humidity	95%(No condensation)			
		Indicator Light		
Power	On No	rmal power supply		
rowei	Off No	power supply		
WiFi	On Wi	i is enabled		
	Off Wi	Fi is disabled		
20/40	On The	e device is accessed over 3G/4G networks		
3G/4G	Off The	e device does not have 3G/4G networks		
Online	On The	e device is logged into the network		
	Off The	e device is not logged into the network		

Installation Dimension



Product Application

1. WIFI application on buses



Typical application

WIFI coverage application:

- ♦ Bus WIFI coverage, wireless Internet advertising push and equipment management
- ♦ Taxi WIFI coverage, wireless Internet advertising push and equipment management
- Long-distance bus WIFI coverage, wireless Internet advertising push and equipment management
- ♦ Hotel WIFI coverage, wireless Internet advertising push and equipment management
- WIFI coverage in public places, wireless Internet advertising push and equipment management
- WIFI coverage in tourist attractions, wireless Internet advertising push and equipment management

Corporate Qualification

ltem	Content
	2011, it was rated as "the best supplier for customer satisfaction in China's industrial control
	industry"; the company's GPRS DTU product was rated as "innovative product award".
	2012, the company became a member of "China Quality Travel".
	2013, the company became a member of the "Technical Innovation Strategic Alliance of
	Intelligent Power Transmission and Distribution Equipment Industry".
	2014, it was rated as an innovative pilot enterprise .
	2014, the company's Zhanjiang Wi-Fi coverage project was awarded the "Sample Engineering
	Award" by the 13th China Automation Annual Conference.
	2015, its video products were rated as "Top Ten Video Transmission Enterprises" by China's
	industrial control industry.
	2015, the noise monitoring project was awarded the "Sample Project Award" by the 14th China
	Automation Annual Conference.
	2015, its video products were rated as "Top Ten Video Transmission Enterprises" by Huaqiang
Corporate Honor	Security Network.
	2016, the video products was rated by Huaqiang Security Network as "2015-2016 High-quality
	Supplier in China's Security Industry".
	2016, it was rated as the "best supplier of charging equipment parts" by charging pile
	communication equipment.
	2016, won the " Product Gold Award of 2016 7th Guangzhou International New Energy
	Automobile Industry Exhibition ".
	2016, The 3rd China Good Wi-Fi Organizing Committee awarded Caimore "2016 Best Wi-Fi
	Industry Application Solution Provider".
	2018, the company's industrial router was rated as "China's Top Ten Industrial Router Brands",
	and DTU was rated as "China's DTU Top Ten Brands"
	2018, it was rated as a key listed reserve enterprise in Xiamen City.
	2019, it was rated as a key listed reserve enterprise in Xiamen City.
	2019, it was rated as a key listed reserve enterprise in Fujian Province.
	2019, Shortlisted for China Telecom Corporation Limited, DICT solution partner of Shanghai
	branch
	2020, Selected as a key listed reserve company in Xiamen
High-tech	2009, it was recognized as a high-tech enterprise by the country
Enterprise	
Double-soft	2010, it was recognized as a double-soft enterprise by the country

Enterprise	
Occupational Health and Safety Management System Certification	ISO9001:2015 quality management system conforms to the standard ISO14001:2015 environmental management system conforms to the standard ISO45001:2018 occupational health and safety management system conforms to the standard
Copyright	The company has 7 patented technology certificates to maintain equipment stability and 31 software copyright certificates.
Offices	Nine regional offices have been established nationwide to provide customers with close and considerate services.
Registered Capital	The company has a registered capital of 20.58 million; it is a key high-tech enterprise supported by Xiamen City.
Historical Accumulation	18 years of industry R&D accumulation and industry application test.