

## CP880 CPE DATASHEET



# CP880

## LTE Outdoor CPE

3GPP Release 12

CAT12

ALL LTE Bands

PoE IP67

CP880 is a highly advanced LTE outdoor multi-service product solution specifically designed to meet integrated data needs for residential, business and enterprise users. The product supports advanced Gigabit networking functionalities. It enables wide service coverage and provides high data throughput and networking features to customers who needs easy broadband access

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Hardware Specifications	
LTE chip set	GCT GDM7243A
LTE standard	3GPP Release 12 CAT 12
Flash	2Gb
DDR	2Gb
Power Supply	Typical value 24VDC/48VDC or compliant to IEEE 802.3at
Ethernet LAN Port/POE input	1 * Gigabit RJ45 PoE LAN Port 10/100/1000 auto-sensing, auto-MDI/MDIX
IP rating	IP67
LED	8 LED Indicators (PWR, SYS, NET, SIM, RF Signal*4)
USIM	Support 1.8V/3.0V 2FF USIM
RJ45	1 * Gigabit RJ45
Reset	Reset and restore factory setup
Antenna	4 directional antenna
Dimensions	288mm x 288 mm x 88mm
Weight	ODU < 2Kg
Power Consumption	< 7W
Power adapter	AC 90~240V DC 24V/0.5A

Environment Specifications		
Temperature	Operating	-40°C ~ 65°C
	Storage	-40°C ~ 85°C
Humidity	Operating	10 ~ 90%
	Storage	5 ~ 95%

RF Specifications		
Support Bands	FDD B1/2/3/4/5/7/8/12/17/20/28A/28B TDD B38/41/42/43/48	
CA <sup>(1)</sup>	Support both intra and inter band CA DL 2CA 4x4 MIMO DL 4CA 2x2 MIMO UL 2CA	
MIMO	DL 2x2 (4CA 256QAM); DL 4x4 (2CA 64QAM); UL 2x2 64QAM;	
Tx	1Tx, 2Tx	
Transmission Mode	TM1/2/3/4/5/6/7/8/9	
Output Power@25°C	23±2 dBm	
Receiving Sensitivity	FDD	-100dBm/10MHz@QPSK
	TDD	-97dBm/20MHz@QPSK
LTE Antenna	4 directional antenna	
LTE	0.7~1G	6 dBi
Antenna Gain <sup>(2)</sup>	1.7~2.7G	12dBi
	3.4~3.8G	14dBi

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- (1) More CA information could get from CA configurations.
- (2) 4 antennas in diversity mode can get 3 dB diversity gain (with the algorithm) against 2antennas.

## Topology



Software Specifications	
Language Settings: Simple Chinese, English <sup>(1)</sup>	
Support NAT/Bridge/Router mode	
Support the http or https web server	
Support two users (admin user and normal user) and different limitation and display	
<b>Peak Throughput</b>	FDD DL 800Mbps (4CC 256QAM); TDD DL 560Mbps (4CC 256QAM); FDD UL 150Mbps (Configuration 2:7); TDD UL 30Mbps (Configuration 2:7 );
<b>LAN</b>	1000Mbit/s
	MDI/MDIX auto-sensing
	IEEE802.3/802.3u/802.3ab is compatible
PIN Management, SIM card Authentication	
Encryption backup current settings and restore the backup settings	
Export current diagnosis results and operation logs	
<b>Statistics</b>	Link Status (LAN)
	Transmit / receive traffic in packets
	Up Time
Support multi-APN	
<b>VPN</b>	L2TP V2/V3
	PPTP
	GRE L2/L3
	GRE over IPSec
	L2TP over IPSec
IPSec	
IPv6/IPv4 dual stack	
	Signal strength
	Network type

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<b>Status<sup>(2)</sup></b>	Network connection status
	SIM card status
	Operator name, system mode
Support full band or preferred band and frequency	
Support PCI lock (Cell lock), band lock, PLMN lock	
Only carrier SIM shall work in the CPE	
Support BIP	

## Device Management

<b>Integrity Check</b>	Image One Version
	Image One Checksum
	Image Two Version
	Image Two Checksum
<b>Version Rollback</b>	Auto Rollback to previous version when upgrade fail
<b>Software Upgrade HTTP/FTP Auto Upgrade</b>	Full image upgrade
	Firmware upgrade manually
	Enable / Disable Upgrade
	Firmware
	Upgrade URL
	Version file
	Check new firmware every (hr.:1~744)
<b>TR069</b>	Start Time
	Random Time
	Supports upload / download the ACS specified file
	Support download CPE configuration file
	Support configure & queries parameters <sup>(1)</sup>
	Support remote upgrade
	Support CPE version update
Supports debugging operations	
Support cycle monitor	
<b>Port mirror</b>	Can enable or disable the port mirror function
<b>syslog</b>	Support the syslog function can send the log to the PC via LAN.
<b>Diagnostics</b>	Support the Ping and trace route

## Bridge Mode

<b>Data traffic forward</b>	Forward the data traffic between the LTE network and PCs.
<b>Maximum 4 PCs support</b>	Each PC connect to the LTE public network via one APN
<b>Module can be managed</b>	One APN can be allocation for the module and the module can be managed via TR069 such remote update version
<b>Public IP allocation</b>	PC get the public IP dynamic from the DHCP server in the CPE. The IP is public CPE get from LTE network.
<b>Multiple APN</b>	Up to 4 APNs support, and can set the static router for each APN

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Router Mode	
LAN	Can be set 2 IP addresses on the LAN and for 2 different Network.
WAN	WAN IP can be set dynamic or static.
Router protocol	Static Route
DNS	Can be set
Multiple APN	Up to 4 APNs support, and can set the static router for each APN

NAT Mode	
NAT	Support NAT function
Firewall	Can enable or disable the firewall
Multiple APN	Up to 4 APNs support, and can set the static router for each APN
DMZ	The DMZ can be set.
DHCP server	Support the DHCP server
DNS	Support the auto DNS or manual DNS configuration

Firewall Features	
Firewall Configuration	Allow Ping from WAN
	Allow HTTPs login from WAN
	HTTPs Login Port from WAN
	DMZ
	DDOS
	Redirect ICMP to the Host
Support the IP filter	
Support the MAC Filter	
Support the URL Filter	
Support UPnP	
Support the Port forwarding	

Appendix-Delivers	
CP880 Outdoor CPE	1 PCS
PoE adapter	1 PCS
Accessories for pole mounting	1 PCS
Quick Start Manual	1 PCS

(1) Detail Delivers need to be defined by customer