

## CP680 CPE DATASHEET



# CP680

## LTE Outdoor CPE

3GPP Release 10/11

CAT6

ALL LTE Bands

PoE IP67

CP680 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 GDM7243QT
LTE standard	3GPP Release 10/11 CAT 6(1)
Flash	2Gb
DDR	1Gb
Power Supply	Gigabit POE, IEEE 802.3at Typical value 24V/48V
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	< 6W
Power adapter	AC 90~240V DC 24V/0.5A

Environment Specifications		
Temperature	Operating	-30°C ~ 60°C
	Storage	-40°C ~ 85°C
Humidity	Operating	10 ~ 90%
	Storage	5 ~ 95%

RF Specifications		
Support Bands	FDD 1/2/3/4/5/7/8/20/28 TDD 38/40/41/42/43/48	
CA <sup>(1)</sup>	Support both intra and inter band CA	
MIMO	DL 2x2; DL 4x4	
Tx	1Tx	
Output Power@25°C	23±2 dBm	
LTE Antenna	4 directional antenna	
LTE Antenna Gain <sup>(2)</sup>	0.7~1G	7 dBi
	1.7~2.1G	10dBi
	2.3G~2.7G	12dBi
	3.4~3.8G	17dBi

(1) If the antenna supports all frequency, the antenna gain will be lower than the value in table

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## 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>	TDD DL 260Mbps UL30Mbps FDD DL 300Mbps UL50Mbps
<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	
<b>Status<sup>(2)</sup></b>	Signal strength
	Network type
	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	

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Only carrier SIM shall work in the CPE
Support BIP

Device Management	
Integrity Check	Image One Version
	Image One Checksum
	Image Two Version
	Image Two Checksum
Version Rollback	Auto Rollback to previous version when upgrade fail
Software Upgrade HTTP/FTP Auto Upgrade	Full image upgrade
	Firmware upgrade manually
	Enable / Disable Upgrade
	Firmware
	Upgrade URL
	Version file
	Check new firmware every (hr.:1~744)
TR069	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	
Port mirror	Can enable or disable the port mirror function
syslog	Support the syslog function can send the log to the PC via LAN.
Diagnostics	Support the Ping and trace route

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

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.

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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	
CP680 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