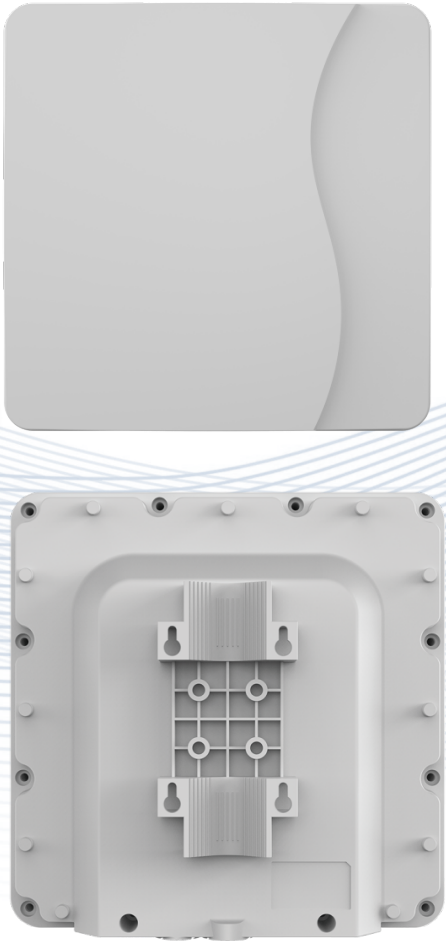# CP880

LTE Outdoor CPE

3GPP Release 12

CAT12

All LTE Bands

PoE

IP67

The CP880 from SUNWAVE is a premium outdoor LTE CPE. The product provides a high throughput data transmission network for residential, commercial and enterprise users. Customers enjoy an easy plug & play broadband access solution and large area coverage for various network service scenarios.

CP880 CPE DATASHEET

RF SPECIFICATIONS			
Supports Bands*		Option 1	B1/3/7/8/(17)/20/(28)/38/(40)/41/42/43/48
		Option 2 (Prototype)	B2/4/5/8/12/14/17/25/26/38/41/42/43/48/66
		Option 3	B42/43/48
		Option 4	B7/38/41
Carrier Aggregation (CA)		Supports both Intra- and Inter- band ca DL 2 CA 4 x 4 MIMO DL 4 CA 2 x 2 MIMO UL 2 CA	
MIMO		DL 2 x 2 (4 CA 256 QAM) DL 4 x 4 (2 CA 64 QAM) UL 2 x 2 64 QAM	
Tx / Rx		2 Tx / 4 Rx	
Transmission Mode		TM 1/2/3/4/5/6/7/8/9	
Output Power @ 25 ℃ | 77 ℉		Max 23 ± 2dBm, configurable	
Receiving Sensitivity		FDD	-100dBm/ 10 MHz @ QPSK
		TDD	-97dBm/ 20 MHz @ QPSK
LTE Antenna		4 directional antennas	
LTE Antenna Gain		Option 1	700 MHz ~ 1 GHz: 6 dBi 1.7 GHz ~ 2.1 GHz: 7 dBi 2.3 GHz ~ 2.7 GHz: 9 dBi 3.4 GHz ~ 3.8 GHz: 8 dBi
		Option 2	700 MHz ~ 1 GHz: 6 dBi 1.7 GHz ~ 2.1 GHz: 7 dBi 2.3 GHz ~ 2.7 GHz: 9 dBi 3.4 GHz ~ 3.8 GHz: 8 dBi
		Option 3	3.4 GHz ~ 3.8 GHz: 16 dBi
		Option 4	2.5 GHz ~ 2.7 GHz: 13 dBi

The frequency bands in () are not included in the conventional sample.

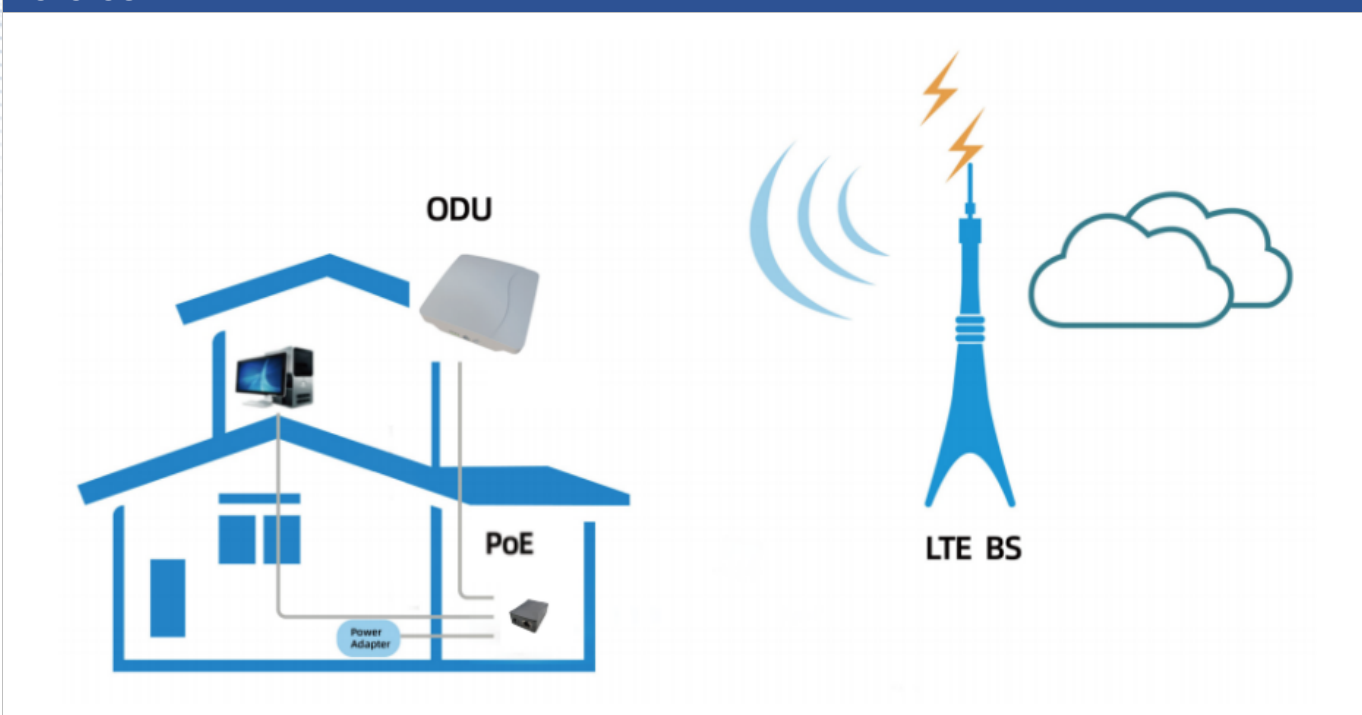| HARDWARE SPECIFICATIONS	
LTE Standard	3GPP Release 12, CAT 12
Flash	2 GB
DDR	2 GB
Power Supply	24V Non-standard PoE default IEEE 802.3 at compatible PoE customized
Ethernet LAN Port/POE Input	(1) Gigabit RJ45 PoE LAN Port 10/100/1000M auto-sensing MDI/ MDIX

CP880 CPE DATASHEET

IP Rating	IP67
LED	4 LED indicators (PWR, NET, SIM, RF signal)
USIM	Supports 1.8V/ 3.0V 2FF USIM
RJ45	(1) Gigabit RJ45
Reset	Reset and restore factory setup
Antenna	4 directional antennas
Dimensions	288 mm x 288 mm x 82 mm | 11.3 in x 11.3 in x 3.2 in
Weight	ODU < 2 kg | 4.41 lbs
Power Consumption	< 10W
Power Adapter	Input: AC 90 ~ 240V Output: DC 24V/ 0.5A

ENVIRONMENT SPECIFICATIONS

Temperature	Operating	-30 ℃ ~ 60 ℃ | -22 °F ~ 140 °F
	Storage	-40 ℃ ~ 85 ℃ | -40 °F ~ 185 °F
Humidity	Operating	10 ~ 90%
	Storage	5 ~ 95%

TOPOLOGY

SOFTWARE SPECIFICATIONS

Language Default Setting: English (alternative language can be customized)

Supports NAT/ bridge/ router mode

Supports the Http or Https web server		
Supports 2 Users (Admin user and normal user) with different limitation and display		
Peak Throughput	FDD DL 800 Mbps (4 CC 256 QAM)	
	FDD UL 150 Mbps (4 CC 256 QAM)	
	TDD DL 560 Mbps (configuration 2:7)	
	TDD UL 30 Mbps (configuration 2:7)	
LAN	1000 Mbps	
	MDI/ MDIX Auto-sensing	
	IEEE802.3/ 802.3u/ 802.3ab compatible	
PIN management, SIM card authentication		
Encryption backup current settings and restore the backup settings		
Export current diagnosis results and operation logs		
Statistics	Link status (LAN)	
	Transmit/ receive traffic in packets	
	Up time	
Supports multiple APN		
VPN	IPSec	
	PPTP	
	L2TP V2/V3	
	GRE L2/L3	
	VPN pass-through	
IPv6/IPv4 dual stack		
Status	Signal strength	
	Network type	
	Network connection status	
	SIM card status	
	Operator name, system mode	
Supports full band or preferred band and frequency		
Supports PCI lock (cell lock), band lock, PLMN lock		
Supports BIP		

DEVICE MANAGEMENT		
Integrity Check	Image one version	
	Image one checksum	
	Image two version	
	Image two checksum	
Version Rollback	Automatically rollback to previous version when upgrade fails	
Software Upgrade HTTP/FTP	Full image upgrade	

Auto Upgrade	Firmware upgrade manually
	Enable/ disable upgrade firmware
	Upgrade URL
	Version file
	Check new firmware every (hr: 1 ~ 744)
	Start time
	Random time
TR-069	Upload/ download the ACS specified file
	Download CPE configuration file
	Configure & queries parameters
	Remote upgrade
	CPE version update
	Debugging operations
	Cycle monitor
Port Mirror	Can be enabled or disabled
Syslog	Log can be sent to the PC via LAN
Diagnostics	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 connects to the LTE public network via one APN
Managed Module	Possible to allocate each APN for the module, manageable module via TR-069 remote update version
Public IP Allocation	Public IP dynamically allocated to PC from the DHCP server Public IP received by CPE from LTE network
Multiple APN	Supports up to 4 APNs, possible to set up static route for each APN

ROUTER MODE	
LAN	Set 2 IP addresses on the LAN, for 2 different networks
WAN	WAN IP: dynamic or static
Router Protocol	Static route
DNS	Adjustable
Multiple APN	Supports up to 4 APNs, possible to set static route for each APN

NAT MODE	
NAT	Supports NAT function
Firewall	Possible to enable or disable the firewall
Multiple APN	Supports up to 4 APNs, possible to set static route for each APN

DMZ	Possible to be Set
DHCP Server	Supports DHCP
DNS	Supports both 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
Supports IP filtering	
Supports MAC filtering	
Supports URL filtering	
Supports UPnP	
Supports Port forwarding	

APPENDIX-DELIVERS	
CP880 Outdoor CPE	1 PCS
PoE Adapter	1 PCS
Accessories for Pole Mounting	1 PCS

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