

## CPX80P CPE DATASHEET



# CPX80P

## 5G Sub-6 Outdoor CPE

CAT20

5GNR/LTE/WCDMA

Directional Antenna

POE

IP67

The CPX80P from SUNWAVE is an Outdoor 5G CPE, supporting various 4G/5G spectrums and provides ultra-high speed experience. It has built-in high-gain directional antennas to expand the signal coverage. The CPX80P ensures quality of wireless communication for various outdoor environments in an IP67 enclosure, protecting it from water, vibration, shock, and lightning.

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## KEY FEATURES

- Qualcomm SDX55 single chip solution
- 5G NR and LTE-A CAT20 dual mode
- Supports both SA and NSA
- Worldwide sub-6 5G and LTE-A coverage
- Supports POE power supply, comply to 802.3 AT/AF
- Powerful software features, supporting all router features
- Supports Web, TR069 and SNMP based device management
- IP67 water and dust proof
- Built-in high-gain antennas

## SYSTEM ELEMENTS



## HARDWARE SPECIFICATIONS

<b>Technical Standard</b>	WAN	5G NR/LTE/WCDMA
	LAN	IEEE 802.3/802.3u
<b>Cellular Bands (CPX80P – A Version)</b>	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79
	LTE	B1/B3/B5/B7/B8/B18/B19/B20/B28/B32/B38/B40/B41/B42/B43
	WCDMA	B1/B3/B5/B8/B19
<b>Cellular Bands (CPX80P – B Version)</b>	5G NR	n2/n5/n7/n12/n25/n41/n48/n66/n71/n77/n78
	LTE	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B41/B46(LAA)/B48/B66/B71
	WCDMA	B2/B4/B5

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## CPX80P CPE DATASHEET

<b>External Port</b>	1 x RJ45 1Gigabit Ethernet port (CPX80P – AE) 1 x RJ45 2.5Gigabit Ethernet port (CPX80P – NA) 1 x SIM Slot (2FF)	
<b>Antenna</b>	6 built-in directional high-gain antennas for cellular	
<b>LED Indicators</b>	1 x power indicator 1 x network status indicator 1 x tri-color signal strength indicators 1 x SIM status indicator	
<b>Button</b>	1 x reboot or restore button	
<b>Carrier Aggregation</b>	LTE: 3CA and UL CA NR: 2CA (available for software upgrade)	
<b>Maximum Transmission Power</b>	5G NR Sub 6 Bands	Class 3 - 23dBm
	5G NR n41/n77/n78/n79	Class 2 - 26dBm
	4G LTE	Class 3 - 23dBm
	WCDMA	Class 3 - 23dBm
<b>Maximum Transmit Throughput (CPX80P – A Version)</b>	5G SA Sub-6 GHz Data Rate	930 Mbps (DL)/900 Mbps (UL)
	5G NSA Sub-6 GHz Data Rate	930 Gbps (DL)/650 Mbps (UL)
	LTE Data Rate	930 Mbps (DL)/200 Mbps (UL)
	WCDMA Data	42 Mbps (DL)/5.76 Mbps (UL)
<b>Maximum Transmit Throughput (CPX80P – B Version)</b>	5G SA Sub-6 GHz Data Rate	2.1 Gbps (DL)/450 Mbps (UL)
	5G NSA Sub-6 GHz Data Rate	2.5 Gbps (DL)/650 Mbps (UL)
	LTE Data Rate	1.0 Gbps (DL)/200 Mbps (UL)
	WCDMA Data	42 Mbps (DL)/5.76 Mbps (UL)
<b>Power Supply</b>	POE 24V/ 48V DC (IEEE802.3 optional)	
<b>Power Consumption</b>	< 24W	
<b>Dimensions (Maximum)</b>	288 mm x 288 mm x 82 mm   11.34 in x 11.34 in x 3.23 in	
<b>Weight</b>	< 2 kg   4.41 lbs	
<b>Humidity</b>	5% ~ 95%	
<b>Temperature</b>	Working temperature: -30 °C ~ 60 °C   -22 °F ~ 140 °F Storage temperature: -40 °C ~ 70 °C   -40 °F ~ 150 °F	

## SOFTWARE SPECIFICATIONS

<b>Data Services</b>	4 x APNs (1 for data, 1 for voice, 1 for management)
	Multiple PDN (up to 16 PDNs)
	IPv4/IPv6 compliance
<b>LAN</b>	IEEE 802.1Q VLAN
	DHCPV4/ DHCPV6 server/ client
	DNS and DNS proxy
	DMZ
	UPNP
	ALG

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	Multi-cast/ Multi-cast Proxy	
	MAC address filtering	
<b>Management</b>	Version Management	Image checksum
		Active version and backup version
		Rollback mechanism when upgrade fails
	HTTP/FTP auto-upgrade	
	TR069	Upload/ Download the ACS specified file
		Download the configuration file
		Configure & queries parameters
		Remote upgrade
		Remote debugging operations
		Cycle monitor
	SNMP	
	WebGUI/ CLI	Different level of user login priority with various limitation and display
		Encryption backup current settings and restore the backup settings
		Export of current diagnosis results and operation logs
Statistics of LAN link status, transmit and receive traffic and up time		
Diagnostics		
USIM PIN management and card authentication		
USIM activation		
<b>VPN &amp; Routing</b>	Route mode	
	Bridge mode/ Bypass mode	
	NAT mode	
	Static mode	
	Port mirror	
	ARP	
	IPv4/IPv6 dual stack	
	Port forwarding	
	IPSec	
	PPTP	
	GRE tunnel	
	L2TP V2/V3	
	VPN pass-through	
<b>Security</b>	Firewall	
	Mac address filtering	
	IP address filtering	
	URL filtering	

## CPX80P CPE DATASHEET

	Access control
	HTTPS login from WAN
	DDOS attack protection
	Hierarchical user management

### COMPLIANCE SPECIFICATIONS

<b>Certification Compliance</b>	CCC/ SRRC/ NAL
	CE
	RCM
	ROHS
	REACH
	WEEE
<b>Environment Compliance</b>	Cold: IEC 60068-2-1
	Dry heat: IEC 60068-2-2
	Damp heat cyclic: IEC 60068-2-30
	Change of temperature: IEC 60068-2-14
	Shock: IEC60068-2-27
	Free fall: IEC60068-2-32
	Vibration: IEC60068-2-6

### ANTENNA SPECIFICATIONS

700 MHz ~ 1G MHz	2dBi	Directional
1.7 GHz ~ 2.1 GHz	7dBi	Directional
2.3 GHz ~ 2.7 GHz	7.5dBi	Directional
3.4 GHz ~ 3.8 GHz	7.5dBi	Directional

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