

CPX60P CPE DATASHEET



CPX60P

5G Sub-6 Indoor CPE

CAT20

5G NR/LTE/WCDMA

Wi-Fi 6 (802.11ax)

The CPX60P from SUNWAVE is a 5G indoor router, providing hyper 5G experience for global carriers and partners. This 5G router is compatible with 4G networks and spectrum and its actual throughput is 10 times higher than 4G LTE. With the CPX60P, consumers will enjoy faster wireless broadband data speeds versus fiber-based solutions, without the need for aerial or underground cabling. Whether you use it at home or in the office, the CPX60P provides a truly wireless broadband experience.

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KEY FEATURES

- Qualcomm SDX55 single chip solution
- 5G NR and LTE-A CAT20 dual modes
- Supports both SA and NSA
- 2 SKUs support European, Asian and North American 5G NR bands
- Supports Wi-Fi 6 (802.11ax), maximum 5.95 Gbit/s throughput
- VoLTE or VoIP voice (optional)
- Powerful software features, supporting all the router features
- Web, TR069 and SNMP based device management

SYSTEM ELEMENTS



HARDWARE SPECIFICATIONS

Technical Standard	WAN	5G NR/LTE/WCDMA/HSPA+
	LAN	IEEE 802.3/802.3u
	WLAN	IEEE 802.11a/b/g/n/ac/ax
Cellular Bands (CPX60P – A Version)	5G NR	n1/n28/n41/n77/n78/n79
	LTE	B1/B2/B3/B5/B7/B8/B28/B34/B39/B40/B41
	WCDMA	B1/B2/B5/B8
	WLAN	2.4 GHz and 5 GHz with QAM1024 support
Cellular Bands (CPX60P – B Version)	5G NR	n2/n5/n7/n12/n25/n41/n66/n71/n78
	LTE	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B41/B42/B48/B66/B71

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	WCDMA	B1/B2/B4/B5/B8
	WLAN	2.4 GHz and 5 GHz with QAM1024 Support
External Port	2 x RJ45 gigabit ethernet port 1 x RJ11 port for VoLTE (optional) 1 x SIM slot (4FF)	
Antenna	4 built-in antennas for cellular 4 built-in antennas for Wi-Fi	
LED Indicators	1 x power indicator 1 x WLAN indicator 1 x net indicator 1 x tri-color signal strength indicator	
Button	1 x reboot or restore button 1 x multi-function button	
Carrier Aggregation	CPX60P – AE version LTE: 3 DLCA CPX60P – NA version LTE: 7 DLCA NR: 2CA (available for software upgrade)	
Maximum Transmission Power	5G NR sub 6 bands	Class 3 - 23dBm
	CPX60P- AE version 5G NR n41/n77/n78/n79	Class 2 - 26dBm
	CPX60P- NA version 5G NR n41/n78	Class 3 - 23dBm
	4G LTE	Class 3 - 23dBm
	WCDMA/HSPA+	Class 3 - 23dBm
	Cellular Data Throughput (CPX60P – A Version)	5G SA
	5G NSA/ENDC	Downlink: 2.5 Gbps; Uplink: 520 Mbps
	LTE-A (CAT 20)	Downlink: 800 Mbps; Uplink: 150 Mbps
Cellular Data Throughput (CPX60P – B Version)	5G SA	Downlink: 2.1 Gbps; Uplink: 450 Mbps
	5G NSA/ENDC	Downlink: 3.3 Gbps; Uplink: 520 Mbps
	LTE-A (CAT 20)	Downlink: 2 Gbps; Uplink: 150 Mbps
Power Supply	DC 12V/ 3A	
Power Consumption	< 36W	
Dimensions (Maximum)	105 mm x 105 mm x 215 mm 4.13 in x 4.13 in x 8.46 in	
Weight	< 1 kg 2.20 lbs	
Humidity	5% ~ 95%	
Temperature	Working temperature: -10 °C ~ 45 °C 14 °F ~ 113 °F	
	Storage temperature: -40 °C ~ 70 °C -40 °F ~ 158 °F	

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SOFTWARE SPECIFICATIONS		
Data Services	4 x APNs (2 for data, 1 for voice, 1 for management)	
	Multiple PDN (up to 16 PDNs)	
	IPV4/IPV6 compliance	
LAN	IEEE 802.1Q VLAN	
	DHCPV4/ DHCPV6 server/ client	
	DNS and DNS proxy	
	DMZ	
	UPNP	
	ALG	
	Multi-cast/ Multi-cast proxy	
	MAC address filtering	
	GPS broadcast to LAN	
Management	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 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		
VPN & Routing	Route mode	
	Bridge mode/ Bypass mode	
	NAT mode	
	Static mode	
	Port mirror	
	ARP	

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	IPV4/IPV6 dual stack
	Port forwarding
	IPSec
	PPTP
	GRE tunnel
	L2TP V2/V3
	VPN pass-through
Security	Firewall
	Mac address filtering
	IP address filtering
	URL filtering
	Access control
	HTTPS login from WAN
	DDOS attack protection
Hierarchical user management	

COMPLIANCE SPECIFICATIONS

Certification Compliance	CCC/ SRRC/ NAL
	CE
	RCM
	ROHS
	REACH
	WEEE
Environment Compliance	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

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