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CPX80P CPE DATASHEET

CPX80P

5G Sub-6 Outdoor CPE

CAT20 5GNR/LTE/WCDMA Qualcomm SDX62 POE IP67

The CPX80P from BTI WIRELESS 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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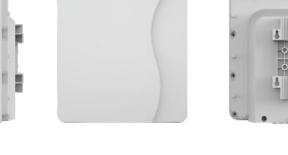


KEY FEATURES

- Qualcomm SDX62 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 802.3at
- 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		
Technical Standard	WAN	5G NR/LTE/WCDMA
	LAN	IEEE 802.3/802.3u/802.3bz
Cellular Bands	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78
	LTE	B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43
(CPX80P – A2 Version)	WCDMA	B1/B5/B8
Cellular Bands (CPX80P – B2 Version)	5G NR	n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71 /n77/n78
	LTE	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B38/B41/B42/B43 /B46 (LAA) /B48/B66/B71

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External Port		igabit Ethernet port		
	1 x SIM Slot (2FF) CPX80P – A2: 4 cellular antenna interfaces CPX80P – B2: 4 cellular antenna interfaces			
Antenna				
	1 x Power indicator			
	1 x Network status indicator			
LED Indicators	1 x Tri-color Signal strength indicators			
	1 x SIM status			
Button	1 x reboot /re	estore button		
	LTE: DL 5CA a	nd UL 2CA		
Carrier Aggregation	NR: 2CA			
	CPX80P-A2	2Tx/4Rx (n38/n41/n77/n78) ^①		
ſx/Rx	CFX60F-AZ	1Tx/4Rx (n1/n3/n5/n7/n8/n20/n28/n40/n75/n76)		
	CPX80P-B2	2Tx/4Rx (n38/n41/n48/n77/n78) ^①		
	1Tx/4Rx (n2/n5/n7/n12/n13/	1Tx/4Rx (n2/n5/n7/n12/n13/n14/n2	25/n26/n29/n30/n66/n70/n71)	
	5G NR Sub 6 E	Bands	Class 3 (23 dBm ±2 dB)	
Maximum	n41/n77/n78 HPUE Class		Class 2 (26 dBm +2/-3 dB) ⁽²⁾	
Transmission Power	4G LTE Class 3 - 23dBm			
	B38/B41/B42 HPUE Class 2 (26 dBm ±2 dB) ⁽²⁾		Class 2 (26 dBm ±2 dB) ⁽²⁾	
	WCDMA		Class 3 (23 dBm ±2 dB)	
		5G NR SA(Gigabit Ethernet port)	2.4Gbps	
		5G NR NSA(Gigabit Ethernet port)	3.2Gbps	
Maximum Transmit	Downlink	4G LTE (Gigabit Ethernet port)	1.6Gbps	
Throughput (CPX80P – A2/CPX80P – B2) ^③		WCDMA (Gigabit Ethernet port)	42Mbps	
	Uplink	5G NR SA(Gigabit Ethernet port)	900Mbps	
		5G NR NSA(Gigabit Ethernet port)	600Mbps	
		4G LTE (Gigabit Ethernet port)	200Mbps	
		WCDMA (Gigabit Ethernet port)	5.76Mbps	
Power Supply	POE 24V/ 48V	/ DC (IEEE802.3at optional)		
Power Consumption	< 24W			
Dimensions (Maximum)	288 x 288 x 82	2 mm 11.34 x 11.34 x 3.23 in		
Weight	< 2 kg 4.41 lbs			
Humidity	5% ~ 95% Noi	n-condensing		
Tomporatura	Working temperature: -30 °C ~ 60 °C -22 °F ~ 140 °F			
Temperature	Storage temperature: -40 °C \sim 70 °C -40 °F \sim 150 °F			

SOFTWARE SPECIFICATIONS Data Services 4 x APNs



	Multiple PDN			
	IPv4/IPv6 dual s	tack support		
	DHCPV4/DHCP	DHCPV4/ DHCPV6 server/ client		
	DNS and DNS p	DNS and DNS proxy		
	DMZ	DMZ		
LAN	UPNP			
	ALG			
	IEEE 802.1Q VL/	IEEE 802.1Q VLAN		
	MAC address filtering			
	Version Management	Image checksum		
	HTTP/FTP auto-	upgrade		
		Upload/ Download the ACS specified file		
		Download the configuration file		
		Configure & queries parameters		
	TR069	Remote upgrade		
		Remote debugging operations		
		Cycle monitor		
Managamant	SNMP			
Management		Different level of user login priority with various limitation and display		
	WebGUI/ CLI	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 mana	USIM PIN management and card authentication		
	USIM activation	USIM activation		
	Bridge mode	Bridge mode		
	NAT mode			
	Port mirror			
	Port forwarding			
VPN & Routing	IPSec			
	PPTP	РРТР		
	GRE tunnel	GRE tunnel		
	L2TP V2/V3			
Security	Firewall			

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Mac address filtering	
IP address filtering	
URL filtering	-
Access control	
HTTPS login from WAN	
DDOS attack protection	-
Hierarchical user management	

COMPLIANCE SPECIFICATIONS

		Cold: IEC 60068-2-1	
		Dry heat: IEC 60068-2-2	
-		Damp heat cyclic: IEC 60068-2-30	
	Environment Compliance	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	3.5 dBi	Directional ^④
1.7 GHz ~ 2.1 GHz	7 dBi	Directional ^④
2.3 GHz ~ 2.7 GHz	7.5 dBi	Directional ^④
3.4 GHz ~ 3.8 GHz	8 dBi	Directional ^④
3.8 GHz ~ 4.2 GHz	8 dBi	Directional ⁽⁴⁾

⁽¹⁾ UL 2 × 2 MIMO is only supported in 5G SA mode.

⁽²⁾ HPUE only supports single carrier.

³ Cellular data throughput is the theoretical value of the module.

⁽⁴⁾ The antenna specifications is based on prototype, the commercial type may have subtle adjustments.

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