THE DIGITAL EDGE OF 5G -- SINCE 1993

CPX80I

5G Industrial Outdoor CPE

CAT20

5GNR/LTE/WCDMA

Wi-Fi 6

RS485/RS232

IP67

The CPX80I from SUNWAVE is a 5G Industrial Outdoor CPE. It supports various 4G/5G spectrums and ultra-high speed in a ruggedized form factor. This product offers industrial-grade environmental qualifications while providing high speed data services for the bandwidth-intensive applications. Up to IP67 with water-proof, shock-resistant, and lightning-proof, combined to ensure the quality of wireless communication under different outdoor environments.

CPX80I CPE DATASHEET

KEY FEATURES

- Qualcomm IPQ6028 chipset solution
- 5G NR and LTE-A CAT20 dual mode
- Supports BOTH SA and NSA
- Global/CBRS bands supported
- Ruggedized and anti-vibration design
- Powerful software features, supporting all router features
- Supports Wi-Fi 6
- Web, TR069 and SNMP based device management
- Supports 2.5G WAN/LAN & 1G LAN and diverse industry interfaces
- IP67 rating for outdoor environment

SYSTEM ELEMENTS

HARDWARE SPECIFICATIONS

Cellular Bands	5G NR	n1/n2/n3/n5/n7/n8/n12/n20/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79
	LTE	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B46/B48
	WCDMA	B1/B2/B3/B4/B5/B6/B8/B19
GNSS	GPS/GLONASS/BeiDou/Galileo	
WLAN	MIMO 2*2 Wi-Fi 6	
Network Mode	Supports SA/NSA	
External Port	1 x M12 for power supply	

	1 x M12 for 2.5G WAN/LAN + 1G LAN
	1 x M12 for RS232 + 2 x DI + 2 x DO
	1 x M12 for RS485 2 x Nano SIM slot (4FF, dual SIM single standby, dual eSIM supported)
Antenna Port	2 x TNC connector for NR&LTE antenna 2 x TNC connector for NR&LTE&GNSS antenna 2 x TNC connector for 2.4&5GHz Wi-Fi antenna
LED Indicators	1 x power indicator 1 x network status indicator 1 x RSSI indicator
Button	1 x reboot or restore button
MIMO	DL 4*4 MIMO UL 2*2 MIMO
ENDC	Supported
Tx/Rx	2Tx/4Rx
Power Supply	DC 24V
Power Consumption	< 20W
Dimensions	290 mm x 189 mm x 56 mm | 11.42 in x 7.44 in x 2.20 in
Weight	< 2.5 kg | 5.5 lbs
Humidity	Operation humidity: 5% - 95% (non-condensing) Storage humidity: 5% - 95% (non-condensing)
Temperature	Operating temperature: -40 °C ~ 70 °C | -40 °F ~ 158 °F Storage temperature: -40 °C ~ 85 °C | -40 °F ~ 185 °F

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	Various level of user login priority with different limitation and display
		Encryption backup current settings and restore the backup settings
		Export 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	
VPN & Routing	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	
Security	Firewall	
	Mac address filtering	
	IP address filtering	
	URL filtering	
	Access control	
	HTTPS login from WAN	
	DDOS attack protection	
	Hierarchical user management	

COMPLIANCE SPECIFICATIONS	
Environment Compliance	Protection rating: EN60529:IP67
	Salt mist: IEC68-2-11
	Shock: IEC60068-2-27/EN50155/EN61373
	Free Fall: IEC60068-2-32 (1 meter height with package)
	Vibration: IEC60068-2-6/EN50155/EN61373

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