CPX60I

5G Industrial Indoor CPE

CAT20

5GNR/LTE/WCDMA
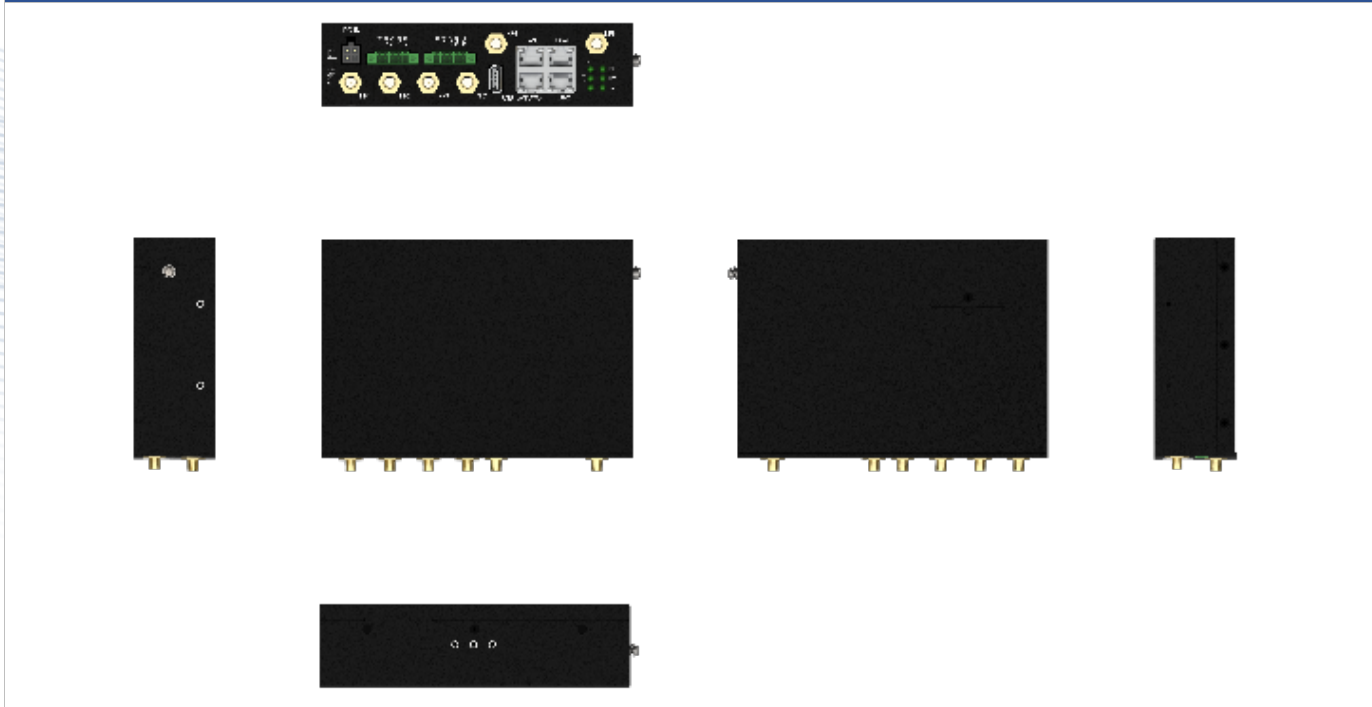
USB 3.1/RJ45

RS485/RS232

Sub-6

The CPX60I from SUNWAVE is a 5G Industrial Indoor CPE. It provides high-speed data transmission for video and other bandwidth-intensive applications on various 4G and 5G spectrums. Sustainable and solid, the CPX60I is ideal for manufacturing, surveillance, and other industrial applications as it meets strict and critical environmental requirements.

CPX60I CPE DATASHEET

KEY FEATURES

- Qualcomm SDX55 single chip solution
- 5G NR and LTE-A CAT20 dual mode
- Supports BOTH SA and NSA
- 2 SKUs support European, Asian and North American 5G NR bands
- Ruggedized and anti-vibration design
- Powerful software features, supporting all router features
- Web, TR069 and SNMP based device management
- Supports USB 3.1, serial ports and GE ports

SYSTEM ELEMENTS

HARDWARE SPECIFICATIONS

Technical Standard	WAN	5G NR/LTE/WCDMA
	LAN	IEEE 802.3/802.3u
Cellular Bands (CPX60I – AE Version)	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
*Cellular Bands (CPX60I – NA Version)	5G NR	n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79
	LTE	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B41/B42/B48/B66/B71
	WCDMA	B1/B2/B3/B4/B5/B6/B8/B19

External Port	4 x RJ45 gigabit ethernet ports 2 x SIM slots (4FF, dual SIM single standby) 2 x DI/DO ports for RS485/RS232 1 x USB 3.1		
Antenna	AE version: 6 SMA antenna ports for cellular NA version: 4 SMA antenna ports for Cellular, 2 SMA antenna port for Wi-Fi		
LED Indicators	1 x power indicator 1 x network status indicator 1 x SIM indicator 3 x signal strength indicators		
Button	1 x reboot or restore button		
Carrier Aggregation	LTE: 3CA and UL CA		
	NR: 2CA (available for software upgrade)		
Maximum Transmission Power	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	
Maximum Transmit Throughput	Downlink	5G NR (gigabit ethernet port)	930 Mbps
		4G LTE (gigabit ethernet port)	930 Mbps
	Uplink	5G NR SA Sub 6	900 Mbps
		5G NR NSA Sub 6	650 Mbps
		4G LTE	200 Mbps
		WCDMA	5.76 Mbps
Power Supply	DC 12V ~ 36V		
Power Consumption	< 24W		
Dimensions (Maximum)	187 x 110 x 51.5 mm | 7.36 x 4.33 x 2.03 in		
Weight	< 1 kg | 2.2 lbs		
Humidity	5% ~ 95%		
Temperature	Operating temperature: -40 °C ~ +45 °C | -40 °F ~ +113 °F Storage temperature: -40 °C ~ +70 °C | -40 °F ~ +158 °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

Management	Multi-cast/ Multi-cast proxy	
	MAC address filtering	
	GPS broadcast to LAN	
	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	
	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	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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