

CP980I CPE DATASHEET



CP980I

LTE Outdoor Industrial CPE

TR069

IP67

3GPP Release 14 CAT16 DL

Wi-Fi 6 (802.11ax)

The CP980I outdoor CPE from SUNWAVE provides LTE service in a ruggedized form factor. With an operating temperature range of -40 to +70 degree Celsius endurance, this product offers industrial-grade environmental qualifications while providing higher speeds data services for video and other bandwidth-intensive applications.

The CP980I has very strong anti-vibration ability, which qualifies it for extreme industrial environments and ideally suited for rail, transportation, mining, oil and gas, manufacturing, and other outdoor applications. The device can support multi-bands for LTE and can provide accurate real-time location information. The built-in GNSS receiver supports GPS, GLONASS, BEIDOU and Galileo constellations.

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CELLULAR SPECIFICATIONS

Category	3GPP Release 14 CAT16 DL	
Peak Throughput	DL: 1Gbps (CAT16) UL: 150Mbps (CAT13)	
Frequency Bands	LTE Bands	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/ B20/B25/B26/B28/B29/ B30/B32/B66 LTE-TDD: B38/B39/B40/B41/B42/B43/B46(LAA)/B48(CBRS)
	WCDMA	B1/B2/B3/B4/B5/B6/B8/B19
Carrier Aggregation and MIMO	DL: 5CA intra or inter band/4x4MIMO/256QAM UL: 2CA intra band (CA_3C, CA_41C)/64QAM	
Tx / Rx	1Tx / 4Rx	
Transmit Power	Power Class 3 (23±2dBm)	
Wi-Fi	Supports 2.4GHz/5GHz dual band IEEE802.11 b/g/n/ac/ax Wi-Fi	

TOPOLOGY



HARDWARE SPECIFICATIONS

Chipset	Qualcomm IPQ6010 + SDX24
Fixed Interfaces	1 x M12 for Power supply 1 x M12 for 10/100/1000Mbps compatible GE port 1 x M12 for 2.5GHz GE port 1 x M12 for RS232 + 2 x DI + 2 x DO

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	1 x M12 for RS485 2 x Nano SIM Slot (4FF, Dual SIM Single Active)
Antenna Ports	3 x TNC female for LTE antennas 1 x TNC female for LTE&GNSS antenna 2 x TNC female for Wi-Fi antennas
GNSS	Supports GPS, GLONASS, BEIDOU and Galileo
LED Indicator	1 x Power indicator 1 x Network status indicator 1 x RSSI indicator
Button	1 x Reboot or Restore Button
Power Consumption	< 18W
Operating Voltage	9V ~ 36V DC
Dimensions	250 x 171 x 61mm 9.84 x 6.73 x 2.40 in
Weight	≈ 2 kg 4.41 lbs

SOFTWARE SPECIFICATIONS

WAN	Multiple APN support, maximum 4	
	Multi PDN	
	IPv4/IPv6 dual stack	
LAN	VLAN 802.1Q	
	DHCP V4/V6	
	DNS and DNS proxy	
	DMZ	
	UPNP	
	ALG	
	ARP/ICMP/IGMP	
	MAC address Filtering	
Device Management	Version management: Image Checksum	
	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 and different limitation and display
Encryption backup current settings and restore the backup settings		
Export current diagnosis results and operation logs		

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	Statistics of LAN link status, transmit and receive traffic and up time
	Diagnostics
	USIM PIN management and card authentication
	USIM activation
	NAT/Bridge mode
	Port mirror/Port forwarding
VPN and Routing	Static Routing
	IPsec
	PPTP
	GRE Tunnel
	L2TP v2/v3
Security	Firewall
	MAC address filtering
	IP address filtering
	URL filtering
	Access control
	HTTPS login from WAN
	Dos attack protection
2 level of user authority	

ENVIRONMENT SPECIFICATIONS

Temperature	Operating	-40 °C ~ +70 °C -40 °F ~ +158 °F
	Storage	-40 °C ~ +85 °C -40 °F ~ +185 °F
Humidity	Operating	10 ~ 90%
	Storage	5 ~ 95%

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