

CP880I CPE DATASHEET



CP880I

LTE Outdoor Industrial CPE

CAT12

IP67

IEEE802.11a/b/g/n/ac Wi-Fi

The CP880I from SUNWAVE is an industrial CPE, providing sustainable and durable LTE service with higher data transmission speed for video and other bandwidth-intensive applications. The industrial CP880I CPE has a special anti-vibration feature, which qualifies it for extreme environments where it can work in a temperature range from -40 °C to 70 °C. It is an ideal industrial CPE for outdoor scenarios with crucial industrial requirements, such as Railway, Transportation, Manufacturing, Mining, Oil and Gas, etc.

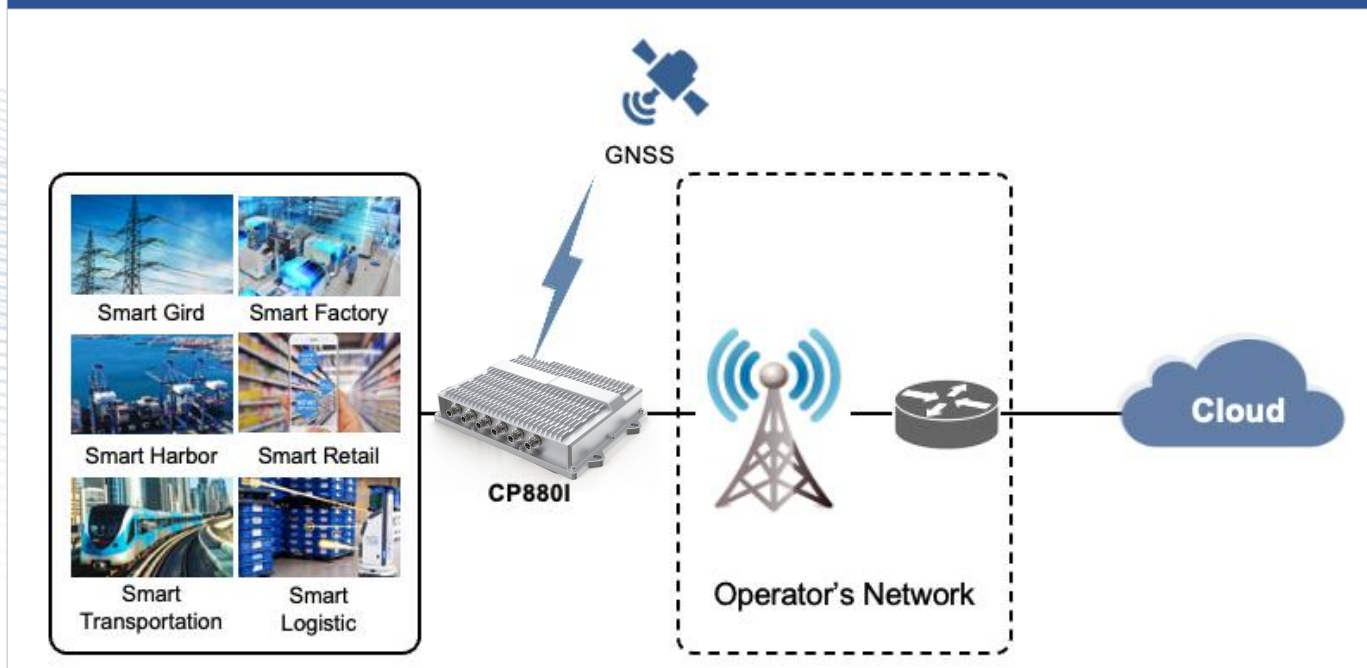
The CP880I is integrated with multiple LTE-A modules, which make it possible to connect with multiple bands of private LTE, including uncommon frequencies. The CP880I also provides accurate, real-time location information via the built-in GNSS receiver, able to collaborate with GPS, GLONASS, BEIDOU and Galileo constellations.

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CELLULAR SPECIFICATIONS

Peak Throughput	FDD: DL 400 Mbps UL 150 Mbps TDD: DL 280 Mbps UL 30 Mbps	
LTE Bands	CP880I-A	Band 1/3
	CP880I-B	Band 2/4/5/8/12/13/14/25/26/38/41/42/43/48/53/66
	CP880I-C	Band 46/240
Carrier Aggregation and MIMO	DL: 2 CA Intra- or Inter-band, 2 x 2 MIMO, 256 QAM UL: 2 CA or 2 x 2 MIMO, 64 QAM	
Tx / Rx	2Tx / 2Rx	
EIRP	< 23dBm (Include antenna)	

TOPOLOGY



HARDWARE SPECIFICATIONS

Fixed Interfaces	1 x M12 for Power 2 x M12 for 10/100/1000 Mbps compatible GE 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)
Antenna Ports	2 x TNC female for cellular antennas 1 x TNC female for GNSS antenna 2 x TNC female for Wi-Fi antennas
GNSS	Supports GPS, GLONASS, BEIDOU and Galileo Constellation

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	Acquisition sensitivity: 148dBm (GPS at cold start) Tracking sensitivity: 167dBm (GPS in continuous mode)
LED Indicator	1 x PWR indicates Power Status 1 x NET indicates Network Status 1 x RSSI LED indicates SIM/Signal status
Button	1 x Reboot or Restore Button
Power Consumption	< 13W
Power supply	9~36V DC
Dimensions	250 x 171 x 61mm 9.84 x 6.73 x 2.40 in
Weight	≈ 2 kg 4.4 lbs
EMC Compliance	EN55032 (CE&RE) Class B IEC61000-4-2(ESD) Level 4 IEC61000-4-3 (RS) Level 2 IEC61000-4-4 (EFT) Level 4 IEC61000-4-5 (Surge) Level 3 IEC61000-4-6 (CS) Level 2
Environment Compliance	Cold: IEC60068-2-1 Dry heat: IEC 60068-2-2 Damp heat cyclic: IEC 60068-2-30 Change of temperature: IEC 60068-2-14 Protection Rating: EN60529, IP67 Shock and Vibration: EN50155 Free Fall: IEC60068-2-32 (1 meter height with package) Salt Mist: IEC 68-2-11, 72H
WAN	Multiple APN support, maximum 4 IP pass-through IPv4/IPv6 dual stack
LAN	VLAN 802.1Q DHCP Server DNS and DNS proxy DMZ Multicast/Multicast Proxy
Protocol	Routing: static routing
Device Management	TR069 SNMP V2 Web UI Software upgrade via WEB/ TR069/ FOTA USIM PIN management
Routing Mode	Route mode

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	Bridge mode NAT mode Static route Port mirror and port forwarding IPv4/ IPv6 dual stack
VPN	PPTP GRE tunnel (L2/L3) L2TPv2 and L2TPv3
Security	Firewall MAC address filtering IP address filtering URL filtering Access control HTTPS login from WAN Dos attack protection 2 level of user authority
Reliability	Watchdog for automatic recovery Auto-rollback to previous version when upgrade fails Dual WAN for link backup

ENVIRONMENT SPECIFICATIONS

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

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