

CP880I CPE DATASHEET

CP880I

LTE Outdoor Industrial CPE



TR069

PoE

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 is able to 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.

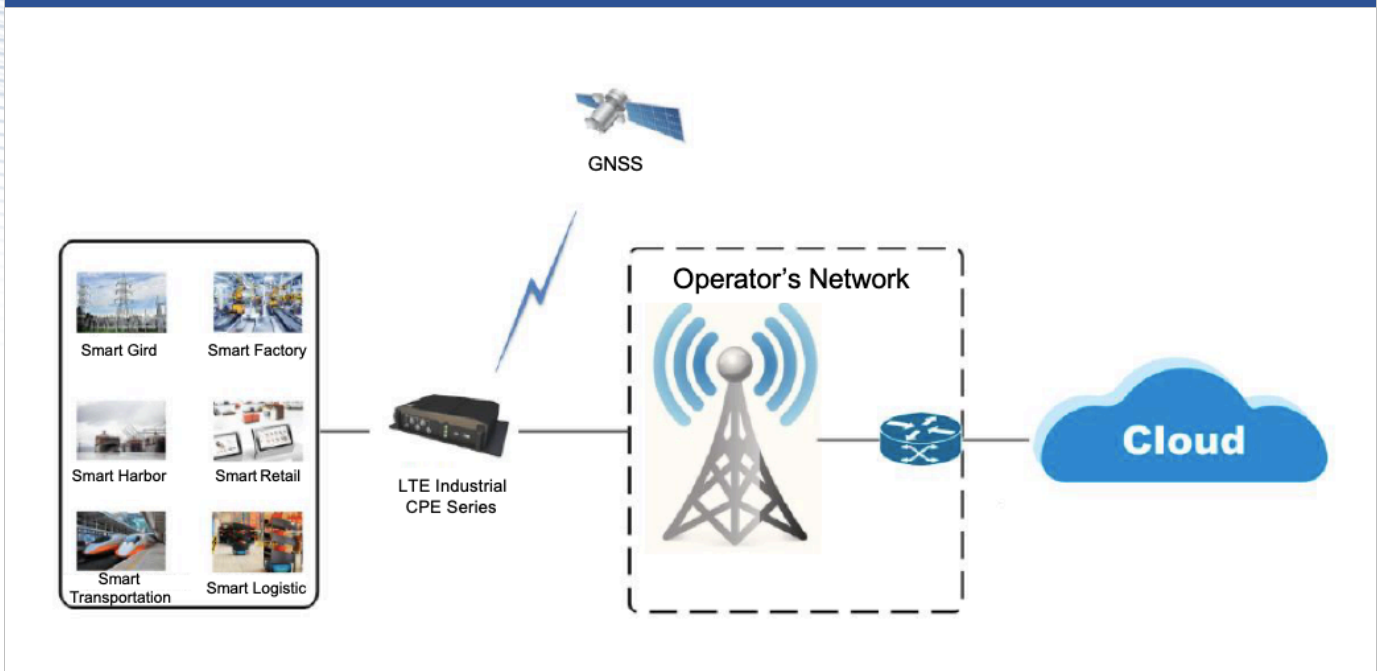
The CP880I is integrated with multiple LTE-A modules, which make it possible to connect with multiple bands of private LTE, including uncommon frequencies. CP880I also provides accurate, real-time location information via the built-in GNSS receiver, able to collaborate with GPS, GLONASS, BEIDOU and Galileo 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)	
Receive Reference Sensitivity	Band 2/25 < 94dBm @ 20MHz	
	Band 42/43/48 < 95dBm @ 20 MHz	
	Band 5/26 < 97dBm @ 10MHz	
	Band 4/8/12/13/14/17/38/41/53/66 <96 dBm @ 20 MHz	

TOPOLOGY



HARDWARE SPECIFICATIONS

Fixed Interfaces	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, DSSS)
Antenna Ports	2 x TNC female for cellular antennas

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	<p>1 x TNC female for GNSS antenna</p> <p>2 x TNC female for Wi-Fi antennas</p>
GNSS	<p>Support GPS, GLONASS, BEIDOU and Galileo Constellation</p> <p>Acquisition sensitivity: 148dBm (GPS at cold start)</p> <p>Tracking sensitivity: 167dBm (GPS in continuous mode)</p>
LED Indicator	PWR, NET, Signal
Power Consumption	< 12W
EMC Compliance	<p>EN55022: 2006 / A1:2007 (CE & RE) Class B</p> <p>IEC61000-4-2 (ESD) Level 3</p> <p>IEC61000-4-3 (RS) Level 4</p> <p>IEC61000-4-4 (EFT) Level 4</p> <p>IEC61000-4-5 (Surge) Level 4</p> <p>IEC61000-4-6 (CS) Level 3</p> <p>IEC61000-4-8 (M/S) Level 4</p>
Environment Compliance	<p>Cold: IEC60068-2-1</p> <p>Dry heat: IEC60068-2-2</p> <p>Damp heat cyclic: IEC60068-2-30</p> <p>Change of temperature: IEC60068-2-14</p> <p>Shock: IEC60068-2-27</p> <p>Free fall: IEC60068-2-32</p> <p>Vibration: IEC60068-2-6/ EN50155</p>
WAN	<p>Multiple APN support, maximum 4</p> <p>IP pass-through</p> <p>IPv4/IPv6 dual stack</p>
LAN	<p>VLAN 802.1Q</p> <p>DHCP server, client</p> <p>DNS and DNS proxy</p> <p>DMZ</p> <p>Multi-cast/ multi-cast proxy</p> <p>MAC address filtering</p> <p>GPS broadcast to LAN</p>
Protocol	Routing: static routing, RIP, OSPF, IGMP proxy, BGP
Device Management	<p>TR069</p> <p>SNMP V3</p> <p>Web UI</p> <p>Software upgrade via WEB/ TR069/ FOTA</p> <p>USIM PIN management</p>
Routing Mode	Route mode

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	Bridge mode NAT mode Static route Port mirror and port forwarding IPv4/ IPv6 dual stack
VPN	IPsec PPTP GRE tunnel (L2/L3) L2TPv2 and L2TPv3 VPN pass-through
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
Operating Voltage	9V - 36V DC
Dimensions	290 mm x 189 mm x 56 mm 11.42 in x 7.44 in x 2.20 in
Weight	< 2500 g 5.51 lbs

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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