

# CP880I

## LTE Outdoor Industrial CPE



TR069

PoE

IP67

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

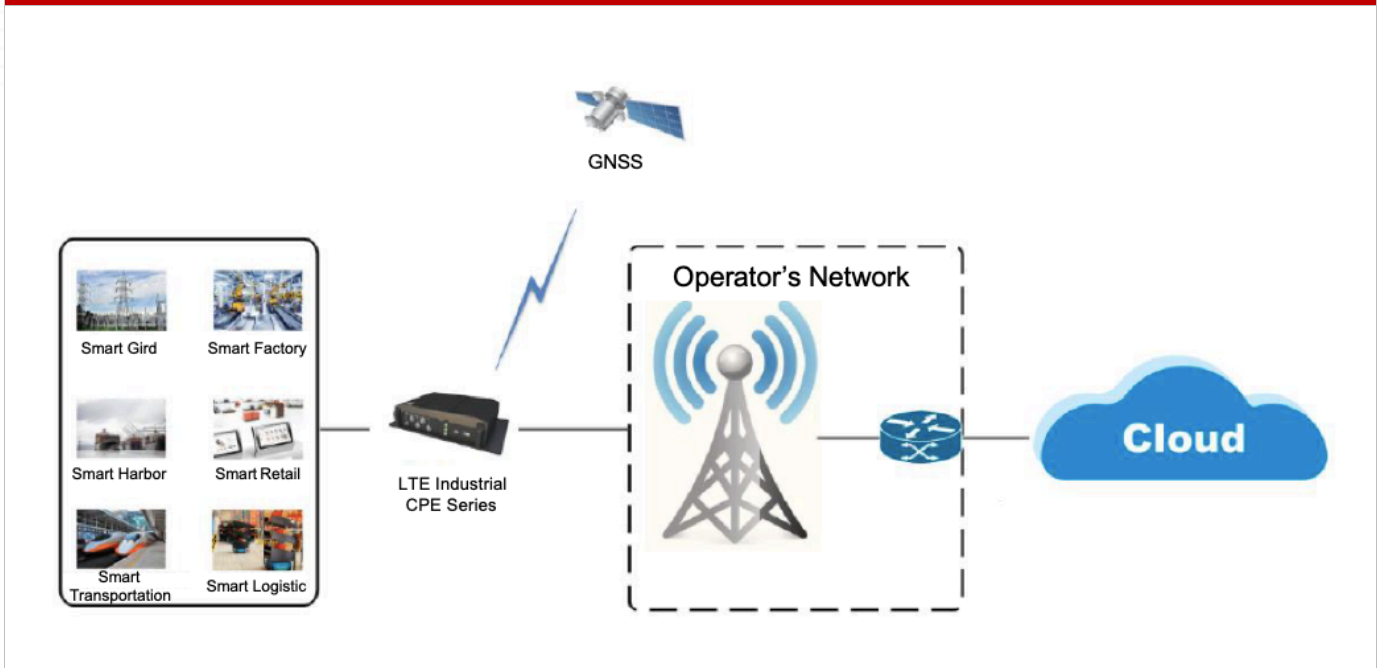
The CP880I from BTI Wireless is an industrial CPE, providing sustainable and durable LTE service with higher data transmission speed for video and other bandwidth-intensive applications. The industrial CP880I CPE has a special anti-vibration feature, which qualifies it for extreme environments where 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.

## CELLULAR SPECIFICATIONS

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

<b>Fixed Interfaces</b>	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)
<b>Antenna Ports</b>	2 x TNC female for cellular antennas 1 x TNC female for GNSS antenna

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

	<ul style="list-style-type: none"> <li>NAT mode</li> <li>Static route</li> <li>Port mirror and port forwarding</li> <li>IPv4/ IPv6 dual stack</li> </ul>
<b>VPN</b>	<ul style="list-style-type: none"> <li>IPsec</li> <li>PPTP</li> <li>GRE tunnel (L2/L3) L2TPv2 and L2TPv3</li> <li>VPN pass-through</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>Firewall</li> <li>MAC address filtering</li> <li>IP address filtering</li> <li>URL filtering</li> <li>Access control</li> <li>HTTPS login from WAN</li> <li>Dos attack protection</li> <li>2 level of user authority</li> </ul>
<b>Reliability</b>	<ul style="list-style-type: none"> <li>Watchdog for automatic recovery</li> <li>Auto-rollback to previous version when upgrade fails</li> <li>Dual WAN for link backup</li> </ul>
<b>Operating Voltage</b>	9V - 36V DC
<b>Dimensions</b>	290 mm x 189 mm x 56 mm   11.42 in x 7.44 in x 2.20 in
<b>Weight</b>	< 2500 g   5.51 lbs

## ENVIRONMENT SPECIFICATIONS

<b>Temperature</b>	Operating	-40 °C ~ 70 °C   -40 °F ~ 158 °F
	Storage	-40 °C ~ 85 °C   -40 °F ~ 185 °F
<b>Humidity</b>	Operating	10 ~ 90%
	Storage	5 ~ 95%

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