



# CP880I

## LTE Outdoor Industrial CPE

CAT12

IP67

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

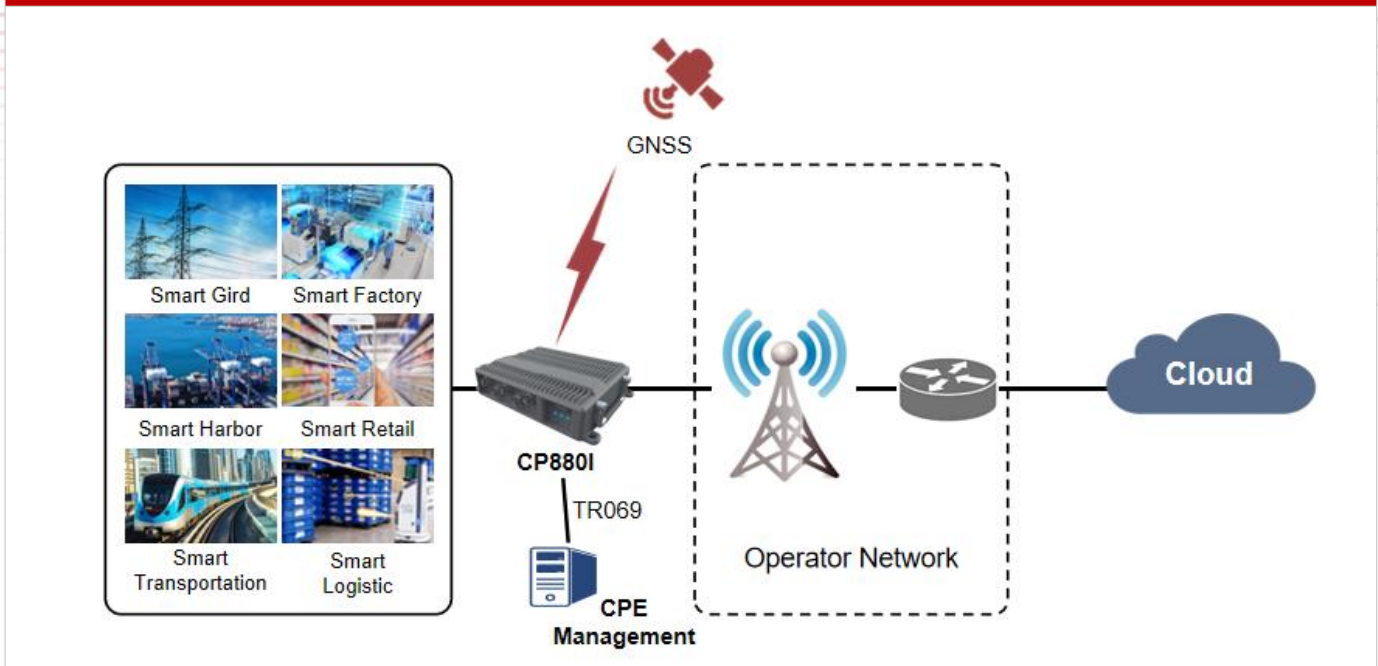
The CP880I from BTI WIRELESS is an industrial CPE, providing sustainable and durable LTE service with higher data transmission speed for video and other bandwidth-intensive applications. The industrial CP880I CPE has a special anti-vibration feature, which qualifies it for extreme environments where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

## 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)	

## TOPOLOGY



## HARDWARE SPECIFICATIONS

<b>Fixed Interfaces</b>	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)
<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>	Supports GPS, GLONASS, BEIDOU and Galileo Constellation

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

	<ul style="list-style-type: none"> <li>Bridge mode</li> <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>PPTP</li> <li>GRE tunnel (L2/L3)</li> <li>L2TPv2 and L2TPv3</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>

## 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>	5 ~ 95% non-condensing	

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