

# CP980I

## LTE Outdoor Industrial CPE



TR069

IP67

3GPP Release 14 CAT16 DL  
Wi-Fi 6 (802.11ax)

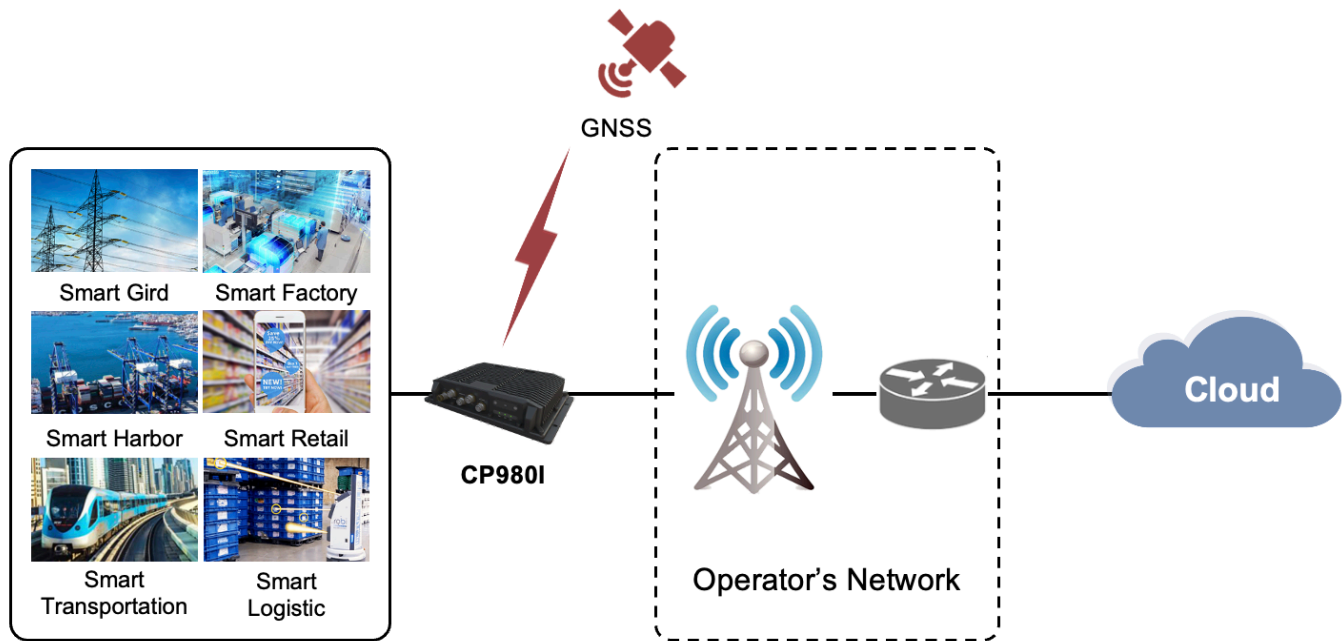
The CP980I outdoor CPE from BTI WIRELESS provides LTE service in a ruggedized form factor. With an operating temperature range of -40 to +70 degree Celsius endurance, this product offers industrial-grade environmental qualifications while providing higher speeds data services for video and other bandwidth-intensive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

## CELLULAR SPECIFICATIONS

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

## TOPOLOGY



## HARDWARE SPECIFICATIONS

|                         |  |
|-------------------------|--|
| <b>Chipset</b>          | Qualcomm IPQ6010 + SDX24                       |
| <b>Fixed Interfaces</b> | 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<br>1 x M12 for RS485<br>2 x Nano SIM Slot (4FF, Dual SIM Single Active) |
| <b>Antenna Ports</b>     | 3 x TNC female for LTE antennas<br>1 x TNC female for LTE&GNSS antenna<br>2 x TNC female for Wi-Fi antennas |
| <b>GNSS</b>              | Supports GPS, GLONASS, BEIDOU and Galileo   |
| <b>LED Indicator</b>     | PWR/NET/RSSI LED indicates power/network/signal status  |
| <b>Power Consumption</b> | < 18W   |
| <b>Operating Voltage</b> | 9V - 36V DC   |
| <b>Dimensions</b>        | 290 x 189 x 56 mm   11.42 x 7.44 x 2.20 in  |
| <b>Weight</b>            | ≈ 2kg   4.41 lbs  |

## SOFTWARE SPECIFICATIONS

|                          |  |
|--------------------------|--|
| <b>WAN</b>               | Multiple APN support, maximum 4<br>IP pass-through<br>IPv4/IPv6 dual stack                 |
| <b>LAN</b>               | VLAN 802.1Q<br>DHCP Server<br>DNS and DNS proxy<br>DMZ                                     |
| <b>Protocol</b>          | Routing: Static routing, IGMP proxy  |
| <b>Device Management</b> | TR069<br>SNMP V3<br>Web UI<br>Software upgrade via WEB/ TR069/ FOTA<br>USIM PIN management |
| <b>Routing Mode</b>      | Bridge Mode<br>NAT mode<br>Port Mirror and Port Forwarding<br>IPV4/IPV6 Dual Stack         |
| <b>VPN</b>               | IPsec<br>PPTP<br>GRE Tunnel(L2/L3)<br>L2TPv2/L2TPv3/L2TP BCP<br>VPN pass-through<br>VXLAN  |
| <b>Security</b>          | Firewall   |

|                    |  |
|--------------------|--|
|                    | MAC address filtering<br>IP address filtering<br>URL filtering<br>Access control<br>HTTPS login from WAN<br>Dos attack protection<br>2 level of user authority |
| <b>Reliability</b> | Watchdog for automatic recovery<br>Auto-rollback to previous version when upgrade fails<br>Dual WAN for link backup  |

## 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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