CP880I

LTE Outdoor Industrial CPE
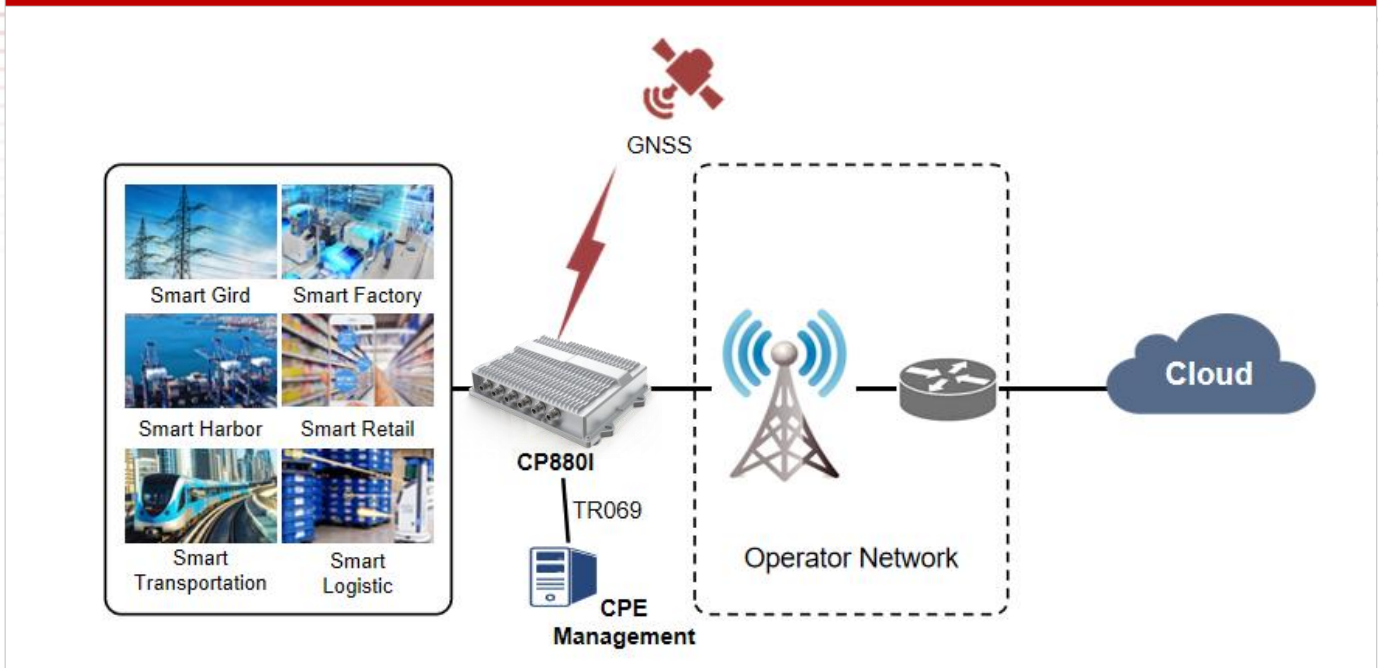
CAT12

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

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, GLONESS, BEIDOU and Galileo Constellation

	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

	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 ℃ ~ +70 ℃ | -40 °F ~ +158 °F
	Storage	-40 ℃ ~ +85 ℃ | -40 °F ~ +185 °F
Humidity	5 ~ 95% non-condensing	

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