CP880I

LTE Outdoor Industrial CPE
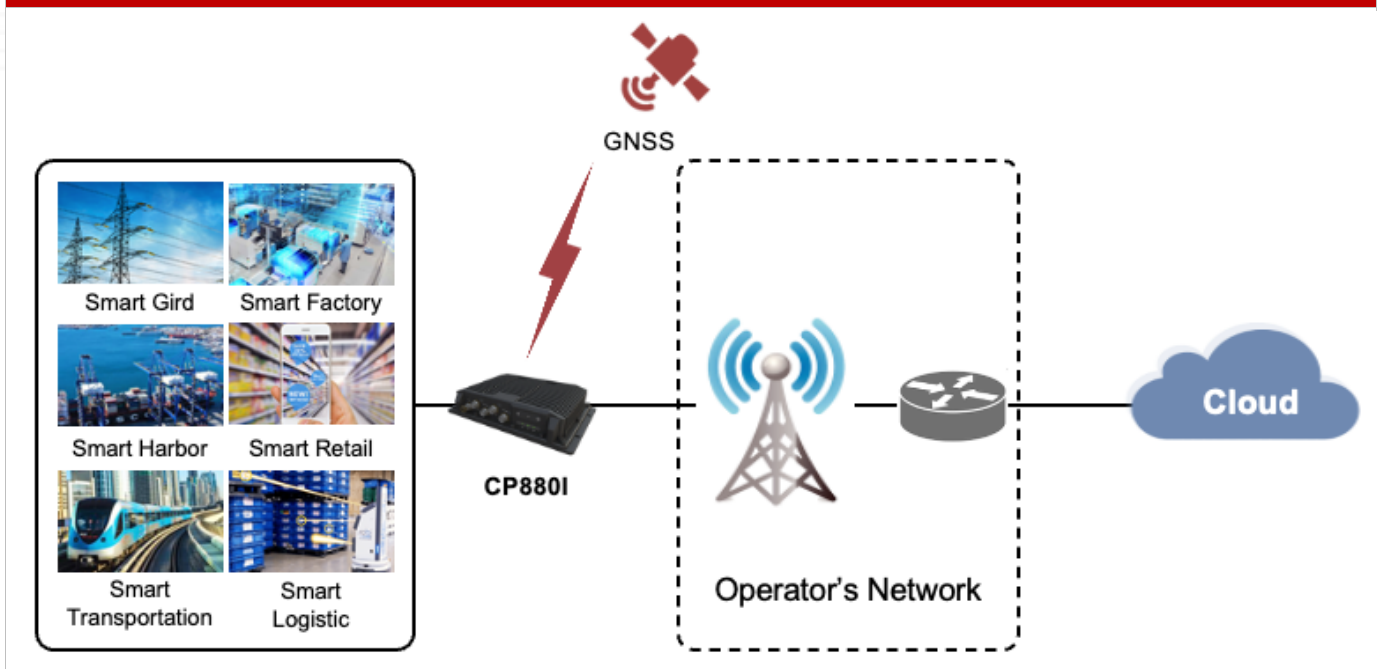
TR069

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

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

	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	PWR, NET, Signal
Power Consumption	< 13W
EMC Compliance	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
Environment Compliance	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
WAN	Multiple APN support, maximum 4
	IP pass-through
	IPv4/IPv6 dual stack
LAN	VLAN 802.1Q
	DHCP server, client
	DNS and DNS proxy
	DMZ
	Multi-cast/ multi-cast proxy
	MAC address filtering
	GPS broadcast to LAN
Protocol	Routing: static routing, RIP, OSPF, IGMP proxy, BGP
Device Management	TR069
	SNMP V3
	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	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 ℃ ~ +70 ℃ | -40 °F ~ +158 °F
	Storage	-40 ℃ ~ +85 ℃ | -40 °F ~ +185 °F
Humidity	Operating	10 ~ 90%
	Storage	5 ~ 95%

Contact Us

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