CPX80I

5G Industrial Outdoor CPE

CAT20

5GNR/LTE/WCDMA

RS485/RS232

IP67

The CPX80I from BTI WIRELESS is a 5G Industrial Outdoor CPE. It supports various 4G/5G spectrums and ultra-high speed in a ruggedized form factor. This product offers industrial-grade environmental qualifications while providing high speed data services for the bandwidth-intensive applications. Up to IP67 with water-proof, shock-resistant, and lightning-proof, combined to ensure the quality of wireless communication under different outdoor environments.

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| **KEY FEATURES** |
| * Qualcomm SDX62 chipset solution * Supports BOTH SA and NSA * Global/CBRS bands supported * Ruggedized and anti-vibration design * Powerful software features, supporting all router features * Supports Wi-Fi 6 * Web, TR069 and SNMP based device management * Supports 2.5G WAN/LAN & 1G LAN and diverse industry interfaces * IP67 rating for outdoor environment |

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| **SYSTEM ELEMENTS** |
| **6** |

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| **HARDWARE SPECIFICATIONS** | | |
| **3GPP** | 3GPP Rel-16 | |
| **Module** | Quectel RM520N-GL | |
| **Cellular Bands** | 5G NR | n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/ n66/n70/n71/n75/n76/n77/n78/n79 |
| LTE | LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71  LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B46(LAA)/B48 |
| WCDMA | B1/B2/B4/B5/B8/B19 |
| **GNSS** | GPS/GLONASS/BeiDou/Galileo | |
| **WiFi** | Support 2.4GHz/5GHz dual band and IEEE802.11 b/g/n/ac/ax Wi-Fi | |
| **Network Mode** | Supports SA/NSA | |
| **External Port** | 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  1 x M12 for RS485  2 x Nano SIM Slot (4FF, Dual SIM Single Active) | |
| **Antenna Port** | 4 x TNC connector for NR&LTE&GNSS antenna  2 x TNC connector for 2.4&5GHz Wi-Fi antenna | |
| **LED Indicators** | 1 x Power indicator  1 x Network status indicator  1 x RSSI indicator | |
| **Button** | 1 x reboot or restore button | |
| **MIMO** | UL 2x2 MIMO on n38/n41/n48/n77/n78/n79  DL 4x4 MIMO on n1/n2/n3/n7/n25/n30/n38/n40/n41/n48/n66/n70/n77/n78/n79  and B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66  Wi-Fi 2x2 MIMO | |
| **Carrier Aggregation** | LTE: DL 5CA and UL 2CA  NR: 2CA | |
| **ENDC** | Support | |
| **Power Supply** | DC 12~36V | |
| **Power Consumption** | < 24W | |
| **Dimensions** | 259 x 178 x 48 mm | |
| **Weight** | ≈2KG | 4.41 lbs | |
| **Humidity** | Operation/Storage: 5% - 95% (non-condensing) | |
| **Temperature** | Operating temperature: -40 °C ~ +70 °C | -40 °F ~ +158 °F  Storage temperature: -40 °C ~ +85 °C | -40 °F ~ +185 °F | |

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| **SOFTWARE SPECIFICATIONS** | | |
| **Data Services** | 4 x APNs | |
| Multiple PDN | |
| IPV4/IPV6 compliance | |
| **LAN** | IEEE 802.1Q VLAN | |
| DHCP V4/V6 | |
| DNS and DNS proxy | |
| DMZ | |
| UPNP | |
| ALG | |
| ARP/ICMP/IGMP | |
| MAC address filtering | |
| **Management** | Version management: Image checksum | |
| HTTP/FTP auto-upgrade | |
| TR069 | Upload/ Download the ACS specified file |
| Download the configuration file |
| Configure & queries parameters |
| Remote upgrade |
| Remote debugging operations |
| Cycle monitor |
| SNMP | |
| WebGUI/ CLI | Various level of user login priority with different limitation and display |
| Encryption backup current settings and restore the backup settings |
| Export current diagnosis results and operation logs |
| Statistics of LAN link status, transmit and receive traffic and up time |
| Diagnostics | |
| USIM PIN management and card authentication | |
| USIM activation | |
| NAT/Bridge mode | |
| Port mirror/Port forwarding | |
| **VPN & Routing** | Static Routing | |
| IPSec | |
| PPTP | |
| GRE tunnel | |
| L2TP V2/V3 | |
| **Security** | Firewall | |
| Mac address filtering | |
| IP address filtering | |
| URL filtering | |
| Access control | |
| HTTPS login from WAN | |
| DDOS attack protection | |
| Hierarchical user management | |

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| **COMPLIANCE SPECIFICATIONS** | |
| **Environment Compliance** | Protection rating: EN60529:IP67 |
| Salt mist: IEC68-2-11,72H |
| Shock: IEC60068-2-27/EN50155/EN61373 |
| Free Fall: IEC60068-2-32 (1 meter height with package) |
| Vibration: IEC60068-2-6/EN50155/EN61373 |

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