CPX80P

5G Sub-6 Outdoor CPE



CAT20

5GNR/LTE/WCDMA

Qualcomm SDX62

POE

IP67

The CPX80P from BTI WIRELESS is an Outdoor 5G CPE, supporting various 4G/5G spectrums and provides ultra-high speed experience. It has built-in high-gain directional antennas to expand the signal coverage. The CPX80P ensures quality of wireless communication for various outdoor environments in an IP67 enclosure, protecting it from water, vibration, shock, and lightning.

|  |
| --- |
| **KEY FEATURES** |
| * Qualcomm SDX62 chip solution
* 5G NR and LTE-A CAT20 dual mode
* Supports both SA and NSA
* Worldwide sub-6 5G and LTE-A coverage
* Supports POE power supply, comply to 802.3at
* Powerful software features, supporting all router features
* Supports Web, TR069 and SNMP based device management
* IP67 water and dust proof
* Built-in high-gain antennas
 |

|  |
| --- |
| **SYSTEM ELEMENTS** |
| 图片包含 游戏机, 表面, 电脑, 桌子  描述已自动生成 |

|  |
| --- |
| **HARDWARE SPECIFICATIONS** |
| **Technical Standard** | WAN | 5G NR/LTE/WCDMA |
| LAN      | IEEE 802.3/802.3u/802.3bz |
| **Cellular Bands****(****CPX80P – A2 )** | 5G NR | n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 |
| LTE | B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43 |
| WCDMA | B1/B5/B8 |
| **Cellular Bands****(CPX80P – B2 )** | 5G NR | n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78 |
| LTE | B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B38/B41/B42/B43/B46 (LAA) /B48/B66/B71 |
| **Cellular Bands****(CPX80P – B2H )** | 5G NR | n48/n77/n78 |
| LTE | B42/B43/B48 |
| **External Port** | 1 x RJ45 2.5Gigabit Ethernet port 1 x SIM Slot (2FF) |
| **Antenna** | CPX80P – A2：4 cellular antenna interfacesCPX80P – B2：4 cellular antenna interfacesCPX80P – B2H：4 cellular antenna interfaces |
| **LED Indicators** | 1 x Power indicator1 x Network status indicator1 x Tri-color Signal strength indicators1 x SIM status indicator |
| **Button** | 1 x reboot /restore button |
| **Carrier Aggregation** | LTE: DL 5CA and UL 2CANR: 2CA |
| **Tx/Rx** | CPX80P-A2 | 2Tx/4Rx (n38/n41/n77/n78) ①1Tx/4Rx (n1/n3/n5/n7/n8/n20/n28/n40/n75/n76) |
| CPX80P-B2 | 2Tx/4Rx (n38/n41/n48/n77/n78) ①1Tx/4Rx (n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n66/n70/n71) |
| CPX80P-B2H | 2Tx/4Rx (n48/n77/n78) ① |
| **Maximum Transmission Power** | 5G NR Sub 6 Bands | Class 3 (23 dBm ±2 dB) |
| n41/n77/n78 HPUE | Class 2 (26 dBm +2/-3 dB) ② |
| 4G LTE | Class 3 - 23dBm |
| B38/B41/B42 HPUE | Class 2 (26 dBm ±2 dB) ② |
| WCDMA | Class 3 (23 dBm ±2 dB) |
| **Maximum Transmit****Throughput****(CPX80P – A2/CPX80P – B2/B2H)③** | Downlink | 5G NR SA(Gigabit Ethernet port) | 2.4Gbps |
| 5G NR NSA(Gigabit Ethernet port) | 3.2Gbps  |
| 4G LTE (Gigabit Ethernet port) | 1.6Gbps |
| WCDMA (Gigabit Ethernet port) | 42Mbps |
| Uplink | 5G NR SA(Gigabit Ethernet port) | 900Mbps |
| 5G NR NSA(Gigabit Ethernet port) | 600Mbps |
| 4G LTE (Gigabit Ethernet port) | 200Mbps |
| WCDMA (Gigabit Ethernet port) | 5.76Mbps |
| **Power Supply** | POE 24V/ 48V DC  (IEEE802.3at optional) |
| **Power Consumption** | < 24W |
| **Dimensions (Maximum)** | 288 x 288 x 82 mm | 11.34 x 11.34 x 3.23 in |
| **Weight** | < 2 kg | 4.41 lbs |
| **Humidity** | 5% ~ 95% Non-condensing |
| **Temperature** | Working temperature: -30 °C ~ 60 °C | -22 °F ~ 140 °FStorage temperature: -40 °C ~ 70 °C | -40 °F ~ 150 °F  |

|  |
| --- |
| **SOFTWARE SPECIFICATIONS** |
| **Data Services** | 4 x APNs  |
| Multiple PDN  |
| IPv4/IPv6 dual stack support |
| **LAN** | DHCPV4/ DHCPV6 server/ client |
| DNS and DNS proxy |
| DMZ |
| UPNP |
| ALG |
| IEEE 802.1Q VLAN |
| 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 | Different level of user login priority with various limitation and display |
| Encryption backup current settings and restore the backup settings |
| Export of 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 |
| **VPN & Routing** | Bridge mode |
| NAT mode |
| Port mirror |
| Port forwarding |
| 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 |

|  |
| --- |
| **COMPLIANCE SPECIFICATIONS** |
| **Environment Compliance** | Cold: IEC 60068-2-1 |
| Dry heat: IEC 60068-2-2 |
| Damp heat cyclic: IEC 60068-2-30 |
| Change of temperature: IEC 60068-2-14 |
| Shock: IEC60068-2-27 |
| Free fall: IEC60068-2-32 |
| Vibration: IEC60068-2-6  |

|  |
| --- |
| **ANTENNA SPECIFICATIONS** |
| CPX80P-A2/B2 |
| 617 MHz ~ 960 MHz | 6 dBi | Directional  |
| 1.7 GHz ~ 2.7 GHz | 9 dBi | Directional  |
| 3.3 GHz ~ 5 GHz | 11 dBi | Directional  |
| CPX80P-B2H |
| 3.3 GHz ~ 4.2 GHz | 16 dBi | Directional  |

*① UL 2 × 2 MIMO is only supported in 5G SA mode.*

*② HPUE only supports single carrier.*

 **③** *Cellular data throughput is the theoretical value of the module.*

Contact Us

[www.btiwireless.com](http://www.btiwireless.com)

sales@btiwireless.com