CPX80P

5G Sub-6 Outdoor CPE



CAT20
5GNR/LTE/WCDMA
Qualcomm SDX62
POE
IP67

The CPX80P from SUNWAVE 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



| HARDWARE SPECIFICATIONS | | |
|-----------------------------|-------|--|
| Tashuisal Standard | WAN | 5G NR/LTE/WCDMA |
| Technical Standard | LAN | IEEE 802.3/802.3u |
| Cellular Bands | 5G NR | n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 |
| (CPX80P – | LTE | B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43 |
| A Version) | WCDMA | B1/B5/B8 |
| Cellular Bands (CPX80P – | 5G NR | n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78 |
| B Version) | LTE | B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B38/B41/B42/B43/B |

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| | | 46 (LAA) /B48/B66/B71 | | |
|----------------------------|--|--|--|--|
| External Port | 1 x RJ45 2.5Gigabit Ethernet port | | | |
| external Port | 1 x SIM Slot (2FF) | | | |
| Antenna | CPX80P-A2: 4 | 4 cellular antenna interfaces | | |
| Antenna | CPX80P-B2: 4 cellular antenna interfaces | | | |
| | 1 x Power indicator | | | |
| LED Indicators | 1 x Network status indicator | | | |
| | 1 x Tri-color Signal strength indicators | | | |
| | 1 x SIM status indicator | | | |
| Button | 1 x reboot /re | | | |
| Carrier Aggregation | LTE: DL 5CA and UL 2CA | | | |
| 00 0 | NR: 2CA | | | |
| | CPX80P-A2 | 2Tx/4Rx (n38/n41/n77/n78) ^① | | |
| Tx/Rx | CDV(CCD DC | 1Tx/4Rx (n1/n3/n5/n7/n8/n20/n28/n | <u> </u> | |
| | CPX80P-B2 | 2Tx/4Rx (n38/n41/n48/n77/n78) ① | | |
| | CC ND Cb C D | 1Tx/4Rx (n2/n5/n7/n12/n13/n14/n2 | | |
| | 5G NR Sub 6 Bands | | Class 3 (23 dBm ±2 dB) | |
| Maximum Transmission Power | 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) | |
| | | 5G NR SA(Gigabit Ethernet port) | 2.4Gbps | |
| Maximum Transmit | | 5G NR NSA(Gigabit Ethernet port) | 3.2Gbps | |
| Throughput | Downlink | 4G LTE (Gigabit Ethernet port) | 1.6Gbps | |
| (CPX80P-A2/CPX80 | | WCDMA (Gigabit Ethernet port) | 42Mbps | |
| P-B2) ^③ | | 5G NR SA(Gigabit Ethernet port) | 900Mbps | |
| P-B2) © | | 5G NR NSA(Gigabit Ethernet port) | 600Mbps | |
| | Uplink | 4G LTE (Gigabit Ethernet port) | 200Mbps | |
| | | WCDMA (Gigabit Ethernet port) | 5.76Mbps | |
| Power Supply | POE 24V/ 48V DC (IEEE802.3at optional) | | | |
| Power Consumption | ns | | | |
| Dimensions (Maximum) | | | | |
| Weight | | | | |
| Humidity | | | | |
| Tomporatura | Working temperature: -30 °C $^{\sim}$ 60 °C \mid -22 °F $^{\sim}$ 140 °F | | | |
| Temperature | Storage temperature: -40 °C $^{\sim}$ 70 °C -40 °F $^{\sim}$ 150 °F | | | |

SOFTWARE SPECIFICATIONS

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| - | | | | | |
|---------------|---|--|--|--|--|
| 4 x APNs | | | | | |
| Data Services | Multiple PDN | Multiple PDN | | | |
| | IPv4/IPv6 dual s | IPv4/IPv6 dual stack support | | | |
| | DHCPV4/ DHCPV6 server/ client | | | | |
| | DNS and DNS proxy | | | | |
| | DMZ | | | | |
| LAN | UPNP | | | | |
| | ALG | | | | |
| | IEEE 802.1Q VLAN | | | | |
| | MAC address fil | MAC address filtering | | | |
| | Version Management | Image checksum | | | |
| | HTTP/FTP auto- | HTTP/FTP auto-upgrade | | | |
| | | Upload/ Download the ACS specified file | | | |
| | | Download the configuration file | | | |
| | TR069 | Configure & queries parameters | | | |
| | 11009 | Remote upgrade | | | |
| | | Remote debugging operations | | | |
| | | Cycle monitor | | | |
| Management | SNMP | | | | |
| Management | | Different level of user login priority with various limitation and display | | | |
| | WebGUI/ CLI | 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 | | | | |
| | Bridge mode | | | | |
| | NAT mode | | | | |
| | Port mirror | | | | |
| VDN 6 Danting | IPv4/IPv6 dual stack | | | | |
| VPN & Routing | Port forwarding | | | | |
| | IPSec | | | | |
| | PPTP | | | | |
| | GRE tunnel | | | | |

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

| ANTENNA SPECIFICATIONS | | |
|------------------------|---------|--------------------------|
| 700 MHz ~ 1G MHz | 3.5 dBi | Directional ^④ |
| 1.7 GHz ~ 2.1 GHz | 7 dBi | Directional ^④ |
| 2.3 GHz ~ 2.7 GHz | 7.5 dBi | Directional ^④ |
| 3.4 GHz ~ 3.8 GHz | 8 dBi | Directional ^④ |
| 3.8 GHz ~ 4.2 GHz | 8 dBi | Directional ^④ |

 $^{^{\}textcircled{1}}$ UL 2 × 2 MIMO is only supported in 5G SA mode.

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² HPUE only supports single carrier.

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

⁽⁴⁾ The antenna specifications is based on prototype, the commercial type may have subtle adjustments.