

# CPX60I

## 5G Industrial Indoor CPE



CAT20

5GNR/LTE/WCDMA

USB 3.0/RJ45

RS485/RS232

Sub-6

The CPX60I from BTI WIRELESS is a 5G Industrial Indoor CPE. It provides high-speed data transmission for video and other bandwidth-intensive applications on various 4G and 5G spectrums. Sustainable and solid, the CPX60I is ideal for manufacturing, surveillance, and other industrial applications as it meets strict and critical environmental requirements.

## KEY FEATURES

- Qualcomm SDX55 single chip solution
- 5G NR and LTE-A CAT20 dual mode
- Supports BOTH SA and NSA
- 2 SKUs support European, Asian, and North American 5G NR bands
- Ruggedized and anti-vibration design
- Powerful software features, supporting all router features
- Web, TR069 and SNMP based device management
- Supports USB 3.0, serial ports, and GE ports

## HARDWARE SPECIFICATIONS

|                                                                 |                                                                                                                                       |                                                                                                                  |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Technical Standard</b>                                       | WAN                                                                                                                                   | 5G NR/LTE/WCDMA                                                                                                  |
|                                                                 | LAN                                                                                                                                   | IEEE 802.3/802.3u                                                                                                |
| <b>Cellular Bands<br/>(CPX60I – AE Version)</b>                 | 5G NR                                                                                                                                 | n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79                                                                   |
|                                                                 | LTE                                                                                                                                   | B1/B3/B5/B7/B8/B18/B19/B20/B28/B32/B38/B40/B41/B42/B43                                                           |
|                                                                 | WCDMA                                                                                                                                 | B1/B3/B5/B8/B19                                                                                                  |
| <b>*Cellular Bands<br/>(CPX60I – NA Version)<br/>(Optional)</b> | 5G NR                                                                                                                                 | n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79                                            |
|                                                                 | LTE                                                                                                                                   | B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B34/B38/B39/B40/B41/B42/B43/B48/B66/B71 |
|                                                                 | WCDMA                                                                                                                                 | B1/B2/B3/B4/B5/B6/B8/B19                                                                                         |
| <b>External Port</b>                                            | 4 x RJ45 gigabit ethernet ports<br>2 x SIM slots (4FF, dual SIM single standby)<br>2 x DI/DO<br>1 x RS485<br>1 x RS232<br>1 x USB 3.0 |                                                                                                                  |
| <b>Antenna</b>                                                  | AE version: 6 SMA antenna ports for cellular<br>NA version: 4 SMA antenna ports for Cellular, 2 SMA antenna port for Wi-Fi            |                                                                                                                  |
| <b>MIMO</b>                                                     | AE/NA version                                                                                                                         | LTE/NR DL 4x4 MIMO, UL 2x2 MIMO                                                                                  |
|                                                                 | NA version                                                                                                                            | Wi-Fi 2x2 MIMO                                                                                                   |
| <b>LED Indicators</b>                                           | 1 x power indicator<br>1 x network status indicator<br>1 x SIM indicator<br>3 x signal strength indicators                            |                                                                                                                  |
| <b>Button</b>                                                   | 1 x reboot or restore button                                                                                                          |                                                                                                                  |
| <b>Carrier Aggregation</b>                                      | LTE: 3CA and UL intra-band CA                                                                                                         |                                                                                                                  |
| <b>Maximum Transmission Power</b>                               | 5G NR sub 6 bands                                                                                                                     | Class 3 - 23dBm                                                                                                  |
|                                                                 | 5G NR n41/n77/n78/n79                                                                                                                 | Class 2 - 26dBm                                                                                                  |

|                                                          |                                                           |                             |
|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------|
| <b>Maximum Transmit Throughput (CPX60I – AE Version)</b> | 4G LTE                                                    | Class 3 - 23dBm             |
|                                                          | WCDMA                                                     | Class 3 - 23dBm             |
|                                                          | 5G SA Sub-6 GHz Data Rate                                 | 1 Gbps (DL)/900 Mbps (UL)   |
|                                                          | 5G NSA Sub-6 GHz Data Rate                                | 1 Gbps (DL)/600 Mbps (UL)   |
|                                                          | LTE Data Rate                                             | 1 Gbps (DL)/150 Mbps (UL)   |
| <b>Maximum Transmit Throughput (CPX60I – NA Version)</b> | WCDMA Data Rate                                           | 42 Mbps (DL)/5.76 Mbps (UL) |
|                                                          | 5G SA Sub-6 GHz Data Rate                                 | 1 Gbps (DL)/450 Mbps (UL)   |
|                                                          | 5G NSA Sub-6 GHz Data Rate                                | 1 Gbps (DL)/650 Mbps (UL)   |
|                                                          | LTE Data Rate                                             | 1 Gbps (DL)/200 Mbps (UL)   |
|                                                          | WCDMA Data Rate                                           | 42 Mbps (DL)/5.76 Mbps (UL) |
| <b>Power Supply</b>                                      | DC 12V ~ 36V                                              |                             |
| <b>Power Consumption</b>                                 | < 24W                                                     |                             |
| <b>Dimensions (Maximum)</b>                              | 187 x 110 x 51.5 mm   7.36 x 4.33 x 2.03 in               |                             |
| <b>Weight</b>                                            | < 1 kg   2.2 lbs                                          |                             |
| <b>Humidity</b>                                          | 5% ~ 95% Non-condensing                                   |                             |
| <b>Temperature</b>                                       | Operating temperature: -40 °C ~ +45 °C   -40 °F ~ +113 °F |                             |
|                                                          | Storage temperature: -40 °C ~ +70 °C   -40 °F ~ +158 °F   |                             |

*\*Customized Model. Please confirm with BTI for specific requirements*

## SOFTWARE SPECIFICATIONS

|               |                                                      |                                                                            |
|---------------|------------------------------------------------------|----------------------------------------------------------------------------|
| Data Services | 4 x APNs (2 for data, 1 for voice, 1 for management) |                                                                            |
|               | Multiple PDN (up to 16 PDNs)                         |                                                                            |
|               | IPV4/IPV6 compliance                                 |                                                                            |
| LAN           | DHCPV4/ DHCPV6 server/ client                        |                                                                            |
|               | DNS and DNS proxy                                    |                                                                            |
|               | DMZ                                                  |                                                                            |
|               | UPNP                                                 |                                                                            |
|               | ALG (optional)                                       |                                                                            |
|               | Multi-cast                                           |                                                                            |
|               | MAC address filtering                                |                                                                            |
| Management    | Version management                                   | Image checksum                                                             |
|               |                                                      | Active version and backup version                                          |
|               |                                                      | Rollback mechanism when upgrade fails                                      |
|               | 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                                      |                                                                            |
| VPN & Routing | Bridge mode/ Bypass mode                             |                                                                            |
|               | NAT mode                                             |                                                                            |
|               | Port mirror                                          |                                                                            |
|               | ARP                                                  |                                                                            |
|               | IPV4/IPV6 dual stack                                 |                                                                            |
|               | Port forwarding                                      |                                                                            |

|                 |                              |
|-----------------|------------------------------|
| <b>Security</b> | IPSec                        |
|                 | PPTP                         |
|                 | GRE tunnel                   |
|                 | L2TP V2/V3                   |
|                 | VPN pass-through             |
|                 | Firewall                     |
|                 | Mac address filtering        |
|                 | IP address filtering         |
| <b>Security</b> | URL filtering                |
|                 | Access control               |
|                 | HTTPS login from WAN         |
|                 | DDOS attack protection       |
|                 | Hierarchical user management |

## COMPLIANCE SPECIFICATIONS

|                               |                                       |
|-------------------------------|---------------------------------------|
| <b>Environment Compliance</b> | 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               |

Contact Us

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