

## Data Sheet

# 5G Outdoor CPE ARW620-b



### Ideal Use Case

- Fixed Wireless Broadband
- Last Mile Access
- Mission-critical, performance-intensive networks
- Urban and Rural Environments\

## Key Parameters

### High Performance

- up to DL 2.5Gbps UL 900Mbps
- Support 5G NR and LTE-A with Qualcomm X62 solution

### Support PoE power supply

- 802.3at/af (Optional)

**Support B48 and N48, comply with CBSD protocol**

**High gain Directional antenna**

### IP Rating

- IP67

## Hardware Function

| <b>Cellular Bands</b>                    |                                                                      |
|------------------------------------------|----------------------------------------------------------------------|
| 5G NR                                    | n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78 |
| LTE                                      | LTE-FDD:B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71          |
|                                          | LTE-TDD:B38/B41/B42/B43/B46(LAA)/B48                                 |
| <b>Chipset</b>                           |                                                                      |
| Qualcomm SDX62                           |                                                                      |
| <b>5G Mode</b>                           |                                                                      |
| Support SA/NSA                           |                                                                      |
| <b>Category</b>                          |                                                                      |
| Re-16/Sub65G                             |                                                                      |
| DL Cat 19/UL Cat 18                      |                                                                      |
| <b>External port</b>                     |                                                                      |
| 1 x 2.5G Ethernet port                   |                                                                      |
| 1 x SIM Slot(2FF)                        |                                                                      |
| 1 x Reset                                |                                                                      |
| <b>LED</b>                               |                                                                      |
| 1 x Power indicator                      |                                                                      |
| 1 x Network status indicator             |                                                                      |
| 1 x Tri-color Signal strength indicators |                                                                      |
| 1 X SIM status indicator                 |                                                                      |
| <b>Antenna</b>                           |                                                                      |
| 4x Built-in LTE/NR Antenna               |                                                                      |
| <b>Antenna Gain</b>                      |                                                                      |
| Option 1: Full Band                      | 600M~960M    7dBi                                                    |
|                                          | 1.7G~2.7G    9dBi                                                    |
|                                          | 3.3G~4.2G    11dBi                                                   |
|                                          | 4.4G~5.0G    6dBi                                                    |
| Option 2: Narrow Band                    | 3.3G~4.2G    17dBi                                                   |
| <b>Carrier Aggregation</b>               |                                                                      |
| LTE                                      | DL 5CA and UL 2CA                                                    |
| NR                                       | 2CA                                                                  |

| <b>MIMO</b>                                                                                        |                                |
|----------------------------------------------------------------------------------------------------|--------------------------------|
| DL4*4 MIMO NR(Band NR: n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78)       |                                |
| DL 4*4 MIMO LTE(Band LTE: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B38/B41/B42/B43/B48/B66/B71) |                                |
| UL2*2 MIMO NR(Band NR: n38/n41/n48/n77/n78)                                                        |                                |
| <b>Maximum transmission power</b>                                                                  |                                |
| 5G NR Sub 6 bands                                                                                  | Class 3(23 dBm $\pm$ 2 dB)     |
| n38/n41/n77/n78 HPUE                                                                               | Class 2(26 dBm +2/-3 dB)       |
| 4G LTE                                                                                             | Class 3(23 dBm $\pm$ 2 dB)     |
| B38/B41/B42 HPUE                                                                                   | Class 2(26 dBm $\pm$ 2 dB)     |
| <b>Maximum transmit throughput(theoretical value)</b>                                              |                                |
| Downlink                                                                                           | 5G NR SA: 2.4Gbps              |
|                                                                                                    | 5G NR NSA: 2.5Gbps             |
|                                                                                                    | 4G LTE: 1.6Gbps                |
| Uplink                                                                                             | 5G NR SA Sub6: 900Mbps         |
|                                                                                                    | 5G NR NSA Sub6: 550Mbps        |
|                                                                                                    | 4G LTE: 200Mbps                |
| <b>Power supply</b>                                                                                |                                |
| DC 20~58V,24V default                                                                              |                                |
| <b>Power consumption</b>                                                                           |                                |
| < 24W                                                                                              |                                |
| <b>Dimensions</b>                                                                                  |                                |
| 288x288x82mm   11.34×11.34×2.3in                                                                   |                                |
| <b>Weight</b>                                                                                      |                                |
| <2000g(4.41lbs)                                                                                    |                                |
| <b>Humidity</b>                                                                                    |                                |
| Operation humidity                                                                                 | 5% - 95% (non-condensing)      |
| Storage humidity                                                                                   | 5% - 95% (non-condensing)      |
| <b>IP rating</b>                                                                                   |                                |
| IP67                                                                                               |                                |
| <b>Temperature</b>                                                                                 |                                |
| Working temperature                                                                                | -30°C to 60°C   -22°F to 140°F |
| Storage temperature                                                                                | -40°C to 85°C   -40°F to 185°F |

## Software Function

|                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Support System</b>                                                                                                                                          |
| Windows (Win7/Win8/Win10); Mac (Mac OS 10.10 or above); Linux; Chrome OS                                                                                       |
| <b>Language</b>                                                                                                                                                |
| English                                                                                                                                                        |
| <b>WAN</b>                                                                                                                                                     |
| Multi-APN support, maximum four; IP pass-through; IPv4/IPv6 dual stack                                                                                         |
| <b>LAN</b>                                                                                                                                                     |
| DHCP Server; DNS and DNS proxy; DMZ                                                                                                                            |
| <b>Management</b>                                                                                                                                              |
| TR069; SNMP v2/v3; Web UI; Software upgrade via Web UI/TR069/FOTA; USIM PIN management                                                                         |
| <b>VPN and Routing</b>                                                                                                                                         |
| PPTP; GRE Tunnel(L2/L3); L2TPv2 and L2TPv3; Static routing; NAT/Bridge/Route Mode; Port Mirror and Port Forwarding; IPV4/IPV6 Dual Stack                       |
| <b>Security</b>                                                                                                                                                |
| Firewall; MAC Address Filtering; IP Address Filtering; URL Filtering; Access Control; HTTPS Login from WAN; Dos attack protection; Two level of user authority |
| <b>Reliability</b>                                                                                                                                             |
| Watchdog; Auto rollback to previous version when upgrade fails                                                                                                 |

## Certificaiton and Environment Compliance

|                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Certification Compliance</b><br>(* Partially Certified or Under Certification Process)                                                                                                      |
| CE*; FCC*; RoHS*; REACH*; WEEE*                                                                                                                                                                |
| <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 |