



MOI5701

5G NR Outdoor CPE

Key Features

-  Qualcomm SDX62 single chip solution
-  5G NR and LTE-A CAT19 dual mode
-  Support both SA and NSA
-  Global 5G and LTE-A coverage
-  Support POE power supply, comply to 802.3at/af
-  Support Web, TR069, APN, and MQTT based device management
-  IP67 water and dust proof
-  Built-in high-gain antennas for rural areas

Enjoy the Gigabit era with 5G technology

The MOI5701 Outdoor CPE supports multiple 4G and 5G spectrums, providing ultra-fast data speeds. Equipped with high-gain directional antennas, it significantly enhances signal coverage. Its IP67 rugged design offers protection against water, impact, and lightning, ensuring stable and reliable wireless performance in demanding outdoor conditions.



Office



Business



Home

Hardware Specifications

Chipset	Qualcomm SDX62	
5G Mode	3GPP Release 16 NSA/SA operation, Sub-6 GHz	
Category	Rel-16/Sub6 5G DL Cat 19/UL Cat 18	
Cellular Bands * Pls contact technical team for final band customization	5G NR	n1/3/5/7/8/20/28/38/40/41/71/75/76/77/78
	LTE	FDD: B1/B3/B5 (B71)/B7/B8/B20/B28/B32 TDD: B38/B40/B41/B42/B43/B46 (LAA)
	WCDMA	B1/B5/B8
Carrier Aggregation & MIMO	5G NR	DL 4 × 4 MIMO: n1/3/5/7/8/20/28/38/40/41/75/76/77/78 UL 2 × 2 MIMO: n38/40/41/77/78
	LTE	DL 4×4 MIMO: B1/3/5/7/8/20/28/32/38/40/41/42/43
Maximum transmit throughput (theoretical value)	5G NR SA	DL 2.4 Gbps; UL 900 Mbps
	5G NR NSA	DL 3.2 Gbps; UL 550 Mbps
	LTE	DL 1.6 Gbps; UL 200 Mbps
External port	1 x 2.5G Ethernet port 1 x SIM Slot (2FF) 1 x Reset	
LED Indicators	1 x Power indicator 1 x SIM status indicator 1 x Network status indicator 1 x Tri-color Signal strength indicators	
Antenna port	4 x Built-in LTE/NR Antenna	
Antenna Gain	Full Band	Narrow Band
	617MHz~960MHz : 6dBi	3.3G~4.2G 16dBi
	1.7GHz~2.7GHz : 9dBi	
	3.3GHz~5GHz : 11dBi	

Hardware Specifications

Maximum transmission power ①:HPUE only supports single carrier	5G NR bands: Class 3 (23 dBm \pm 2 dB) 5G NR HPUE bands (n38/n41/n77/n78): Class 2 (26 dBm +2/-3 dB) ① LTE bands: Class 3 (23 dBm \pm 2 dB) LTE HPUE bands (B38/B41/B42): Class 2 (26 dBm +2 dB) ① WCDMA bands: Class 3 (24 dBm \pm 1/-3 dB)
Power supply	DC 20~58V, 24V default
Power consumption	< 24W
Dimensions	288mm x 288mm x 82 mm
Weight	< 2000g
IP rating	IP67
Temperature	Working temperature: -30°C to 55°C Storage temperature: -40°C to 85°C
Humidity	Operation humidity: 5% - 95% (non-condensing) Storage humidity: 5% - 95% (non-condensing)

Software Specifications

Support System	Windows (Win7/Win8/Win10) Mac (Mac OS 10.10 or above) Linux Chrome OS
Language	English
WAN	Multi-APN support, maximum four IPv4/v6 dual stack
LAN	DHCP Server DNS and DNS proxy DMZ
Management	TR069 Web UI Software upgrade via Web UI/TR069/FOTA USIM PIN management APN management Operating frequency band selection MQTT management
VPN and Routing	PPTP (Client Mode only) GRE Tunnel (L2/L3) L2TPv2 and L2TPv3 (Client Mode only) Static routing NAT/ NAPT/Bridge/Router Mode Port Mirror and Port Forwarding IPV4/IPv6 Dual Stack Virtual Private Network (VPN) passthrough
Security	Firewall MAC Address Filtering IP Address Filtering Access Control HTTPS Login from WAN DoS attack protection Two level of user authority
Reliability	Watchdog Auto rollback to previous version when upgrade fails

Certification and Environment Compliance

Certification Compliance <i>(*Available on a customer demand basis)</i>	CE* FCC* RoHS* REACH* WEEE*
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: IEC60068-2-31 Vibration: IEC60068-2-6