CIAP716N-6A25

Wi-Fi6 Tri-Band Outdoor AP



- Wi-Fi 6, M.2 5GSA/NSA Sub 6GHz Router
- Support the Wi-Fi 6(802.11ax) standard, 2.4GHz and 5GHz dual-frequency
- Fat&thin AP in one, supporting centralized controller management
- Support three working modes: router, access point and wireless repeater
- Support multiple VPN functions such as IPSec, L2TP, PPTP, etc
- Support 802.3at PoE power supply mode which makes the deployment easy and fast
- IP67 protection

Product Description

CIAP716N-6A25 is an outdoor AX7800 Wi-Fi6 tri-band AP, CIAP716N-6A25 available in 5G NR+Wi-Fi6. The product is based on a powerful Qualcomm wireless core, with a 27dBm high power and external antennas to achieve a larger coverage range. It supports IEEE 802.11a/b/g/n/ac/ax protocols, with a maximum WiFi access rate of 7800Mbps. It comes with standard 512MB of RAM (customizable from 256MB to 1GB). CIAP716N-6A25 is equipped with a dedicated IoT/eMBB application-designed M.2 module for global 5G Sub6GHz networks. It adopts 3GPP Release 16 technology and automatically adapts to 5G NR NSA and SA network deployments, while also being backward compatible with 4G/3G. It enables wired broadband and cellular broadband networks to be used as backups for each other. It can provide network connectivity to WiFi users in scenarios where wired broadband access is lacking, through 5G broadband. The outstanding performance and stability of the product are not only derived from the high-end Qualcomm core platform, but also rely on our professional R&D team's software and hardware design. The product can be widely used in industries and scenarios such as park coverage, energy mines, smart docks, warehousing and logistics, smart cities, exhibition venues, etc.

Product Features

- AX7800 Wi-Fi 6, M.2 5G SA/NSA Sub 6GHz Router
- 5G NR Router employs 3GPP Rel. 16 technology, it supports both 5G NSA and SA modes, covers all the main stream carriers worldwide
- Support the Wi-Fi 6(802.11ax) standard,2.4GHz and 5GHz dual-frequency UL/DL MU-MIMO, enabling AP to send data to multiple terminals at the same time
- Fat and Fit AP in one, Fit AP mode managed uniformly by the wireless controller (AC), Fat AP mode independent web page management.
- 2.5G Ethernet port. Using 2.5Gbps Ethernet port, compared with Gigabit port, the speed is greatly improved
- Set WAN/LAN port as WAN to enable CIAP716N-6A25 use the landline internet from WAN, and 4G/5G connection works as a backup to provide a sustained and reliable internet connection for you
- Automated failover/failback back up among Ethernet, Cellular and Wi-Fi
- Multiple SSID

Technical Specifications

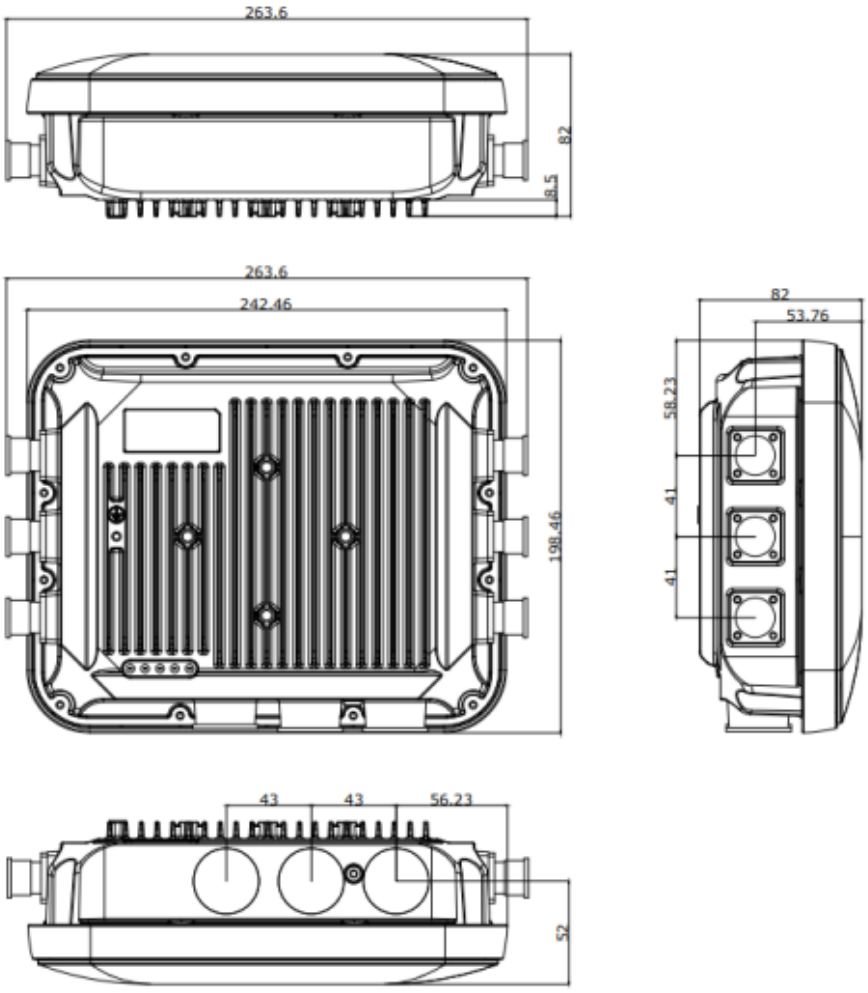
Cellular Network	
5G NR Module	Qualcomm Snapdragon X62
Frequency Bands	5G NR SA: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/ n48/n 66/n70/n71/n75/n76/n77/n78/n79
	5G NR NSA: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/ n48/n 66/n70/n71/n75/n76/n77/n78/n79
	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/ B30/B32/B66/B71
	LTE TDD: B34/B38/B39/B40/B41/B42/B43//B48
	LAA: B46
	WCDMA: B1/B2/B4/B5/B8/B19
Data Transmission Rate	5GSA Sub-6: Max. 2.4 Gbps (DL)/Max. 900 Mbps (UL)
	5G NSA Sub-6: Max. 3.4 Gbps (DL)/Max. 550 Mbps (UL)
	5G NSA mmWave: Max. 4.0 Gbps (DL)/Max. 1.4 Gbps (UL)
	LTE-FDD: Max. 1.6 Gbps (DL)/Max. 200 Mbps (UL)
	HSPA+: Max. 42Mbps (DL)/Max. 5.76Mbps (UL)
Antennas	Internal 4 high gain antennas
SIM Card	1 x Mini SIM(2FF), Push-push type
Wi-Fi Interface	
Wi-Fi Chip sets	2.4GHz: Qualcomm IPQ5018 (Dual-core ARM Cortex-A53@1GHz)
	5GHz: Qualcomm QCN6102+QCN6024

Memory	Flash: SPI NAND 128MB + SPI NOR 32MB
	RAM:512MB DDR3L SDRAM
Wi-Fi Standards	2.4 GHz: IEEE802.11b/g/n/ax
	5.8 GHz: IEEE 802.11a/n/ac/ax
Frequency	2.4 GHz (2.412GHz - 2.484GHz)
	5 GHz(5.15GHz ~ 5.85GHz)
Antennas	2.4GHz: 2 × N-K type connectors
	5GHz: 4 × N-K type connectors
Wi-Fi Security	Open, WPA, WPA2PSK TKIPAES, WAP2_EAP, WPA3
Operating Modes	Wireless router mode Access point mode Repeater mode
End Users	256
Wi-Fi Data Rates	802.11a: up to 54 Mbps 802.11b: up to 11 Mbps 802.11g: up to 54 Mbps WiFi 4 (802.11n) : up to 300 Mbps WiFi 5 (802.11ac) (1024QAM) : up to 1733 Mbps WiFi 6 (802.11ax) (2.4GHz) : up to 574 Mbps WiFi 6 (802.11ax) (5GHz-1) : up to 2402 Mbps WiFi 6 (802.11ax) (5GHz-2) : up to 4804Mbps
TX Power	27dBm
Ethernet Interface	
WAN/LAN Port	1 x Gigabit WAN (can be configured as LAN) RJ45, 10/100/1000 Mbps, auto MDI/MDIX

Mode	Full or Half Duplex (Auto-Sensing)
Power Supply	
Power Input	48V PoE input over WAN
Power Consumption	≤18W
Standard	IEEE 802.3at standard
Physical Characteristics	
Housing	Metal
Dimension	263.6*198.46*82mm(L*W*H)
Installation	Wall or Bracket mounting
Operating Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +85°C
Ingress Protection	IP67
Weight	1800g
Software	
VPN Client	IPSec Client PPTP VPN Client L2TP VPN Client
Others	
Button	Press and hold 5s to restore factory Settings
Console	RJ45
Indicators LED	PWR, ETH, 5G, 2.4G, 5.8G

Dimensions

Unit: mm



Ordering Information

Standard Model	WAN/LAN	2.4GHz Antenna	5GHz Antenna	Input Voltage
CIAP716N-6A25	1	2	4	DC48V

Contact Us

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