3onedata
Reliable Connections



ICPE2600

Wall Mounting or Pole Mounting
Industrial Outdoor 5G Wireless Router

- Support 1 Gigabit PoE WAN, 1 Gigabit LAN, 2 2.4G antenna interfaces, 2 5.8G antenna interfaces and 4 5G Sub- 6G antenna interfaces, which can meet the high bandwidth requirement of industry application
- Support 5G NR cellular wireless network, compatible with 3G/4G LTE all networks
- Support 2.4GHz and 5.8GHz dual bands
- Support 12~48VDC power supply input , and WAN port supports 48VDC PoE power supply input
- Support -40~75℃ wide operating temperature range



CONNECTING FOR A BETTER FUTURE

3onedata Co.,Ltd.

Introduction

ICPE2600 is industrial 5G wireless router. Its PoE power supply conforms to IEEE802.3af/at protocol standard. This product provides Gigabit PoE WAN, Gigabit LAN, 2.4G antenna interfaces, 5.8G antenna interfaces and 5G Sub-6G antenna interfaces. It also adopt wall mounting or pole mounting, which can meet the requirements of different application scenes.

Network management supports multiple software functions, like 3G/4G/5G Cellular WAN, Ethernet WAN, ICMP Link Test, Link Backup, Dynamic Domain Name, Routing Table Setting, WLAN Setting, Port Forwarding, Port Redirection, DMZ Settings, UPnP Setting, VRRP, RIP, OSPF, Static DHCP, QoS etc. It also supports firewall functions, such as IP Filtering, MAC Filtering, URL Filtering and Keyword Filtering and VPN tunneling functions including GRE, IPSec, PPTP, L2TP. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

RESET button can realize device reboot and one-key factory default restoration. All components are industrial grade, and the protection grade is IP68, which can adapt to the harsh outdoor environment. It can be widely used in rail transit, security, smart city, integrated pipe gallery, production automation, smart lamp pole and other industries.

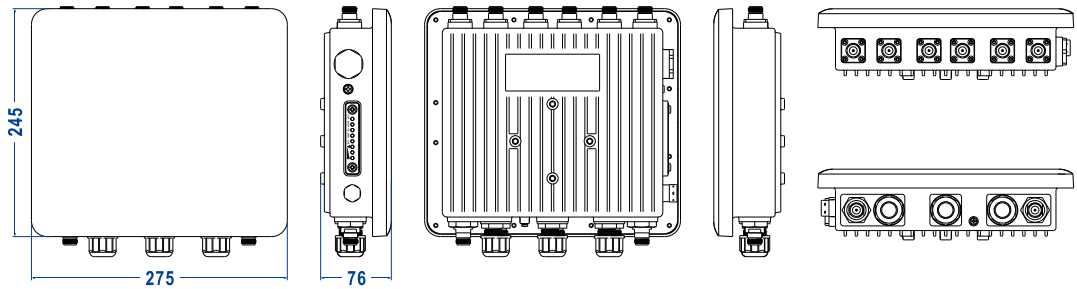
Features and Benefits

- Support high-speed wireless connection, 2.4GHz transmission speed could reach 300Mbps, 5.8GHz could reach 867Mbps, 5G Sub-6G could reach 2Gbps
- Supports dual-band 2×2MIMO and 4 dual-RF omnidirectional antennas; Support 5G Sub-6G 4×4MIMO and 4 omnidirectional antennas
- Support dual SIM card redundancy backup and Cellular network. It's embedded with 5G wireless communication modules
- Support PPPoE dialing, IP acquisition by DHCP, backup switch between static IP and 3G/4G/5G cellular networks to fit different scenes
- Support network firewall, which can implement filtering and forwarding of IP, MAC, URL, keyword, etc.
- Support DHCP server, which can be used for distributing IP address with different strategies
- Support DDNS function, user can access server through domain names
- Support VPN encryption protocols like GRE, PPTP, L2TP and IPSEC, which can ensure the privacy and integrity of data and prevent replay attack
- Support port forwarding, port redirection functions and so on, which can realize address translation
- VRRP, RIP, OSPF could implement dynamic router configuration
- QoS supports real-time traffic classification and priority setting

- Support system log, ping test and route tracking, user can conduct network diagnosis and troubleshooting.

Dimension

Unit: mm



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T 3GPP Rel-15 for 5G NR 3GPP Rel-14 for 4G LTX 3GPP Rel-18 for 3G WCDMA IEEE802.11b/g/n/a/ac for WLAN IEEE802.11i for wireless security IEEE802.11r for fast roaming IEEE802.3af/at for PoE/PoE+
Cellular Network	3G/4G/5G cellular network, network type 5G NR/LTE FDD/ LTE TDD/ WCDMA/ TD-SCDMA/ HSPA/ CDMA/ EVDO
Network Settings	WAN Network, Wireless WiFi, PPPoE Dialing, Link Backup, Dynamic Domain Name, Routing Table, Wireless Client Filtering, Port Forwarding , Port Redirection, DMZ Settings, UPnP Settings, Static DHCP, QoS, VRRP, RIP, OSPF
Firewall	IP Filtering, MAC Filtering, URL Filtering and Keyword Filtering
VPN Tunnel	GRE, PPTP Client/Server, L2TP Client/Server, IPSec
System Management	Time Settings, Access Settings, Timed Restart, Backup Recovery, Log Management, Firmware Upgrade

Troubleshooting	System Log, Ping Test and Route Tracking
WiFi Radio Frequency	802.11B/g/n: 2.412GHz~2.4835GHz 802.11Ac/n/a: 5.18GHz~5.825GHz RF power output: 20dBm Modulation methods: DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM
WiFi Receiving Sensitivity	802.11n_HT40：-82dBm@MCS0, -64dBm@MCS7 802.11n_HT20：-85dBm@MCS0, -67dBm@MCS7 802.11g/a：-91dBm@6Mbps, -72dBm@54Mbps 802.11b：-93dBm@1Mbps, -87dBm@11Mbps 802.11ac：-84dBm@MCS0, -59dBm@MCS9
WiFi Transmitting Power	802.11n_HT40：20dBm@MCS0, 20dBm@MCS7 802.11n_HT20：20dBm@MCS0, 20dBm@MCS7 802.11g/a：20dBm@6Mbps, 20dBm@54Mbps 802.11b：20dBm@1Mbps, 20dBm@11Mbps 802.11ac：20dBm@MCS0, 20dBm@MCS9
5G NR Operating Frequency Band	• 5G NR：n1/n2/n3/n5/n7/n8/n12/n20/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79 • 4G LTE-FDD：B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 • 4G LTE-TDD：B34/B38/39/B40/B41/B42/B48 • 3G WCDMA：B1/B2/B3/B4/B5/B6/B8/B19
5G NR Bandwidth (downward, upward)	• 5G SA：DL 2.1Gbps；UL 900Mbps • 5G NSA：DL 2.5Gbps；UL 650Mbps • LTE：DL 1Gbps；UL 200Mbps • WCDMA：DL 42Mbps；UL 5.76Mbps
Interface	WAN port: 1 10/100/1000Base-T(X) RJ45port, support POE 48VDC input power supply LAN port: 1 10/100/1000Base-T(X) RJ45 port Antenna: 2 2.4G N-K type (Female) interfaces, 2 5.8G N-K type (Female) interfaces, 4 5G Sub-6G N-K type (Female) interfaces SIM cart slot: 1 Micro SIM card slot and 1 Nano SIM card slot, redundant backup
Power supply	WAN port: supports PoE 48VDC power receiving, which conforms to IEEE802.3af/at standard Power supply terminal: 12~48VDC, support non-polarity, using 3-pin

	5.08mm pitch terminal with waterproof plug
Indicator	Running status indicator, WLAN indicator, 5G indicator, WLAN indicator, LAN indicator, 5G signal strength indicator
Power consumption	No-load (normal temperature): 5.5W Full-load (high temperature):15.9W
Working Environment	Operating temperature: -40~75℃ Storage temperature:-40~85℃ Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: IP68 protection, metal Installation: Wall mounting or pole mounting Dimension (L × W × H): 275mm×76mm×245mm Weight: 3kg
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC 61000-4-4 (EFT, electrical fast transient), Level 4 ● Power supply: ±4kV ● Ethernet interface: ±2kV IEC 61000-4-5 (Surge), Level 4 ● Power supply: common mode±4kV, differential mode±2kV ● Ethernet interface: ±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
MTBF	>250000 hours
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	Gigabit PoE WAN	Gigabit LAN	Antenna interface			Power supply
			2.4G	5.8G	5G Sub-6G	
ICPE2600	1	1	2	2	4	12~48VDC or PoE 48VDC

Optional Accessories

Product Type	Product Number	Remark
2.4GHz(5dBi) omnidirectional fiberglass antenna, N-J type×1	3005040017	Optional
5.8GHz(5dBi) omnidirectional fiberglass antenna, N-J type×1	3005040019	Optional
2.4GHz(8dBi) omnidirectional fiberglass antenna, N-J type×1	3005040012	Optional
5.8GHz(8dBi) omnidirectional fiberglass antenna, N-J type×1	3005040013	Optional
2.4GHz(14dBi) directional panel antenna, N-K type×1	3005040010	Optional
5.8GHz(14dBi) directional panel antenna, N-K type×1	3005040011	Optional
5G Sub-6G (3dBi) omnidirectional fiberglass antenna, N-J type×1	3005040064	Optional
5G Sub-6G (5dBi) omnidirectional fiberglass antenna, N-J type×1	3005040082	Optional
5M outdoor waterproof WLAN RF cable, NJ-NK	3005040008	Optional
5M outdoor waterproof WLAN RF cable, NJ-NJ	3005040014	Optional

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