3onedata
Make network communication more reliable



ICPE5000-2A-5GT-2E-LV

Rail mounted/wall mounted installation

Industrial grade 5G wireless router

- Supports 1 gigabit WAN port, 4 gigabit LAN ports, 1 RS-232 Console port, RJ45, 6 external antenna interfaces (4 5G antenna interfaces, 2 WIFI antenna interfaces), 2 SIM/UIM card slots, etc
- Supports 5G SA/NSA networking, backward compatible with 4G/3G/2G networks
- Supports simultaneous access to 5G/4G, WIFI, wired multiple networks, and backup switching of multiple network links
- Supports OpenVPN clients, IPsec, PPTP/L2TP, GRE, N2N, and provides powerful data security mechanisms
- Supports wide power input: 12-48VDC, low-power design, suitable for different on-site power supply methods
- No fan design, metal casing
- Supports wide temperature operation from -30 to 75 ℃

WiFi 无风扇

Introduction

The ICPE5000-2A-5GT-2E-LV industrial router is a high-speed, wide coverage, low latency, and highly reliable 5G industrial router that supports 5G SA/NSA networking and is backward compatible with 4G/3G/2G networks, providing secure and high-speed wireless connections between remote devices and data centers. No matter where you are, your device can quickly access the internet with 2G/3G/4G/5G networks worldwide.

This industrial grade wireless routers meet the needs of industrial users, with low power consumption and operating temperatures ranging from -30 °C to 75 °C. With strict EMC indicators, they can meet the network communication needs in harsh temperature, humidity, and electromagnetic interference environments, making them an ideal choice for industrial applications. At the same time, it has VPN function, providing multiple VPN encryption modes such as IPSec, L2TP, GRE, etc., allowing device data to be transmitted in secure data channels, preventing data from being accessed and tampered with, and providing higher security for network applications.. It can be widely used in various industries such as rail transit, security, smart cities, comprehensive pipe corridors, production automation, smart light poles, etc.

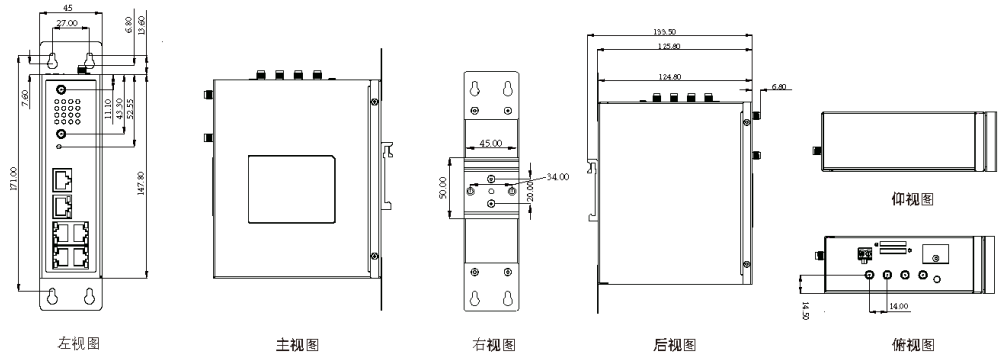
Features and Benefits

- Equipped with a 4-core high-performance CPU, supporting hardware data forwarding and providing powerful network data processing capabilities
- Supports 2.4G and 5.8G dual frequency WIFI with full signal coverage
- Adopting industrial grade devices and specialized design, able to adapt to the harsh working environment of industrial sites
- No fan design, capable of long-term operation in temperature environments ranging from -30 ° C to+75 ° C
- Adopting a metal shell with a protection level of IP40, it is particularly suitable for industrial control on-site applications
- Low power design, wide power input (12-48VDC), suitable for different on-site power supply methods
- Embedded watchdog technology, self-healing of faults, ensuring normal operation of equipment
- Adopting a complete anti drop mechanism to ensure that data terminals are always online
- WDT watchdog design, hardware interface isolation protection, ensuring system stability
- Support multiple VPN encryption modes such as IPsec, L2TP, GRE, N2N, etc. to ensure data transmission security
- Multi antenna design enhances wireless signal and ensures various on-site network performance
- Flexible data transmission methods, supporting wired methods such as Ethernet and wireless methods such as WLAN and 3G/4G/5G
- Provide a WEB configuration interface, simple to use and easy to deploy

- Support unified management of remote devices to improve operation and maintenance quality
- Provide remote firmware upgrade, secure and easy to expand functionality

Dimension

Unit: mm



Specifications

Standards and protocols	Wireless LAN, following 802.11n a/b/g/n/ac 10Base-T, following IEEE 802.3 100Base-TX, following IEEE 802.3u 1000Base-T, following IEEE 802.3ab
Cellular network	5G/4G/3G/GSM 5GNR: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79 FDD-LTE: B1/B3/B5 TDD-LTE: B38/B39/B40/B41 WCDMA: B1 CDMA2000 EVDO:800MHz TD-SCDMA: B34/B39 EDGE/GPRS/GSM:1800MHz/900MHz CDMA2000 1X: 800MHz
Network access	APN, VPDN
Access authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2

LAN protocol	ARP, Ethernet
WAN protocol	Static IP, DHCP, PPPoE
VLAN	VLAN management
IP application	Ping, Traceroute, DHCP Server/Client, DNS Relay, Dynamic DNS, Telnet, SSH, HTTP, HTTPS, TFTP, FTP, SFTP, NAT
IP Routing	Static routing
VPN	IPsec, L2TP/PPTP, GRE, OpenVPN, N2N
firewall	NAT, PAT, DMZ, port mapping IP filtering, port filtering, MAC filtering
Link backup	Link switching for 5G/4G cellular networks, Wi Fi, and wired Ethernet
Link detection	TCP/Ping heartbeat detection, VPN link detection, automatic connection when disconnected
QoS	Upstream and downstream bandwidth limitations
Embedded watchdog	Self inspection of equipment operation and self repair of equipment operation faults
DTU	Built in software DTU function, supports Modbus TCP/RTU conversion, and supports 101/104 conversion
WLAN	Supports IEEE 802.11n ac/a/b/g/n 2.4GHz and 5.8GHz AP, Client working mode Open systems, shared keys, WPA/WPA2 authentication WEP/TKIP/AES encryption Portal Access Authentication
Traffic statistics	Real time traffic statistics Monthly traffic statistics Traffic limit setting
Scheduled Tasks	Scheduled restart
SNMP	SNMP v1/v2
Configuration maintenance	Web Management Telnet and SSH terminals System status monitoring NTP client, supporting device system clock network synchronization

	Configure Import Export Network tools: Ping, Tracert
Firmware management	Firmware upgrade, supporting local (HTTP/serial) and remote upgrades
Event Alarm	System log
Processor	4 * ARM Cortex-A7 processor
Operating system	Linux system
Console Port	1 * RS232, RJ45 interface for debugging
Interface	Ethernet interface: 1-way GE WAN 10/100/1000Mbit/s adaptive, built-in 1.5KV electromagnetic isolation protection, configurable as LAN; 4-way GE LAN 10/100/1000Mbit/s adaptive, built-in 1.5KV electromagnetic isolation protection Antenna interface: 6 external antenna interfaces (standard SMA female, characteristic impedance 50 ohms), 4 5G antenna interfaces, and 2 WIFI antenna interfaces SIM/UIM card interface: Standard drawer type interface, drawer type card holder * 2, supporting 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
Reset button	By clicking this button, the parameter configuration of the device can be restored to the factory values
Real time clock	Built in RTC, battery powered
Indicator light	Power indicator light, system indicator light, VPN indicator light, network online indicator light, SIM card 1 indicator light, SIM card 2 indicator light, user indicator light, 2.4GWIFI status indicator light, 5.8GWIFI status indicator light, GPS signal indicator light, level 3 signal indicator light
Source	Interface: Terminal power socket, built-in power reverse phase protection and overvoltage protection Power supply range: DC12~48V
Power dissipation	Maximum power consumption: 12W Idle working current: 600mA@12VDC Peak operating current: 1A@12VDC
Work environment	Working temperature: -30~75 ℃ Storage temperature: -40~85 ℃ Relative humidity: 5%~95% (without condensation)
Mechanical properties	Shell: IP40 protection level, metal shell

	Size (width × high × Depth: 148mm * 125mm * 45mm (excluding antenna and mounting parts) Installation method: guide rail/wall mounted installation Weight: 735g
Industry standards	IEC 61000-4-2 (ESD, Electrostatic Discharge Immunity), Level 3 ● Air discharge: ± 8kV ● Contact discharge: ± 6kV IEC 61000-4-4 (EFT, Electrical Fast Transient Burst Immunity), Level 3 ● Power supply: ± 2kV ● Ethernet interface: ± 1kV IEC 61000-4-5 (Surge Immunity), Level 3 ● Power supply: common mode ± 2kV, differential mode ± 1kV ● Ethernet interface: common mode ± 2kV, differential mode ± 1kV Impact: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Model	Gigabit WAN port	Gigabit LAN port	Console port	SIM/UIM Card slot	5G antenna interface	WiFi antenna interface	5G network	WLAN	Source
ICPE5000-2A-5GT-2E-LV	1	4	1	2	4	2	Supports SA/NSA	Support for Wi Fi	12-48VDC

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