

Pioneer in **5G&WiFi6** CPE



Industrial/Power Gateway

IA4525

Product Introduction



IA4525 is a cost-effective industrial gateway launched by Wuhan Da Ta Technologies, positioning industrial, vehicle and power timing applications. The product uses a 4-core high-performance communication processor, takes embedded real-time operating system as the software support platform, and supports various network protocols, security features and industrial protocols. It also provides multiple types of physical interfaces and supports the transmission of various services. With compact design, IP40 protection, and wide temperature adaptability, the device can meet the user in a variety of environmental conditions to use, providing high flexibility and strong adaptability.

## Product Overview

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IA4525 is a high-performance 5G industrial gateway that supports 5G NR and LTE uplink access, has 5G large bandwidth, low latency, high reliability and other features, and can convert cellular network data into Gigabit Ethernet and WIFI data. At the same time, it supports the connection of industrial serial port devices, Ethernet devices and WIFI devices to achieve transparent data transmission and routing functions, effectively meeting various 5G communication needs. The product software is based on OpenWRT, supports TR069, a variety of VPNS, modbus, MQTT and other protocols, and has the ability to provide secondary development for industrial, vehicle and Internet of Things applications. IA4525 supports 5G high-precision timing, and can also be applied to distribution network differential protection, distribution network PMU, distribution network automation Sanyao(Remote Communication/Telemetry/Remote control), intelligent inspection and other business scenarios in the power industry.



## Product Highlights

### High-speed Internet experience

- ✧ High-performance 5G chip; Support global mainstream frequency band; Support both SA/NSA network.
- ✧ Selecting cost-effective solutions, Using independent CPU+ independent wifi6 chip + independent 5G chip and Reducing unnecessary costs as much as possible while keeping high performance and strong reliability.
- ✧ The mature quad-core @1.8GHZ main processor improves multi-device connectivity and processing capabilities to easily cope with various applications.

### Industrial quality, strong environmental adaptability

- ✧ IP40 dust proof, improve equipment stability.
- ✧ Support -20 °C ~60 °C operating temperature, suitable for use in various environments.

### Supports Layer 2 and Layer 3 VPNS for easy local networking

- ✧ Supports L2TP, IPSEC, Vxlan and other layer 2, layer 3 VPN technology, and can establish VPN virtual connection with internal network resources, external network resources, cloud resources and other destination networks, and easily realize virtual networking with the factory local network.

### Double backup, always online

- ✧ Support 5G NR and wired dual connection, air and ground backup, automatic

detection of network faults, automatic line switching, to ensure that the network never drops.

### 5G high-precision timing

- ✧ 1us high-precision timing service without wiring.
- ✧ Integrated 5G communication and timing module,able to integrate various services and improve the cost performance of equipment.

## Product Specification

Hardware Specification	
System Parameters	
<b>Main CPU Architecture</b>	Independent Qualcomm Quad-Core CPU
<b>Main CPU Frequency</b>	1.8GHZ/core, quad-core
<b>Memory</b>	1GB
<b>5G Chip</b>	UNISOC V516
Interface Parameters	
<b>5G NR</b>	Support SA&NSA network
<b>5G Antenna</b>	4 external antennas
<b>SIM Card</b>	1*SIM slot 1*sSIM/patch card (optional)
<b>WAN Port</b>	1*GE port, 100M/1000M adaptive, type: RJ45
<b>LAN Port</b>	3*GE ports, 100M/1000M adaptive, type: RJ45
<b>WiFi Protocol</b>	2.4GHz IEEE 802.11 b/g/n/ax 2T2R 5GHz IEEE 802.11 a/n/ac/ax 2T2R
<b>WiFi Theoretic Throughput</b>	Overall WiFi throughput:1800Mbps 2.4GHz: 574Mbps (2ss 40MHz) 5GHz: 1200Mbps (2ss 80MHz)
<b>WiFi Antenna</b>	2 external omnidirectional antennas
<b>USB port</b>	1*USB
Physical Parameters	
<b>Dimension</b>	158mm * 120mm * 30mm

<b>Material</b>	Metal
<b>Colour</b>	Black
<b>Installation</b>	Tabletop/Wall-mounting/Clamp rail
<b>Button</b>	RESET
<b>Indicator</b>	Power, LAN, 2.4G WiFi, 5G WiFi, 4G LTE, 5G NR
<b>Power Supply</b>	
<b>Power Supply</b>	DC 12V(2 industrial lock pin terminal), standard 220V DC adapter
<b>Output Voltage</b>	12V
<b>Output Current</b>	2A
<b>Environment Parameters</b>	
<b>Working Temperature</b>	-20°C ~ +60°C
<b>Storage Temperature</b>	-40°C ~ +70°C
<b>Working Humidity</b>	5%—95% HR(Non condensing)
<b>Storage Humidity</b>	5%—95% HR(Non condensing)

<b>Software Specifications</b>	
<b>5G Access</b>	SA&NSA network, 5G/LTE, automatic network searching, manual network setting, APN, traffic statistics, SMS management, Band locking, cell locking*
<b>WAN Access</b>	Routing mode, Bridge mode, Link backup
<b>LAN Access</b>	VLAN Management, MAC Management, IGMP Snooping*, IGMP Proxy*
<b>WiFi Access</b>	Support 802.11 a/b/g/n/ac/ax standard, Channel Adaptive, Multi-SSID, WPS: PBC/PIN mode, WPA/WPA2/WPA3 security encryption, Mesh networking, WMM
<b>IP Application</b>	IPv4, IPv6, IPv4/IPv6 dual stack, ARP, PPPOE, DHCP Client/Server, DNS, NAT, ALG, Virtual Server
<b>Routing</b>	Static routing V4/V6
<b>VPN Protocol</b>	PPTP, L2TP, IPSEC*, Vxlan*
<b>Security</b>	Basic firewall, anti-attack(ARP,DDOS etc.), anti-scan, port filtering, MAC filtering, DMZ
<b>Device Management</b>	TR069, SNMP*, Local WEB

**Note:** The \* symbol indicates a non-generic feature, support varies from version to version

## Networking

