

■ JetBox 9435-w

Embedded 8-port VPN Routing Computer







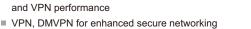












■ Intel IXP 435 667MHz networking processor to enhance routing

- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- Separated two main DC 12~48V power inputs
- Fan-less and ruggedized industrial design for anti-vibration,
- -40~80°C operating temperature



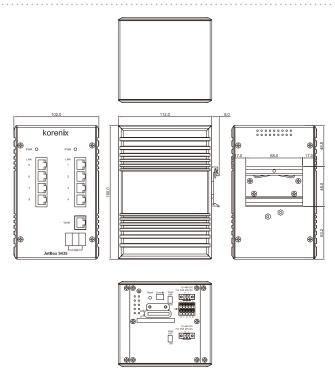


Overview

The robust JetBox 9435-w series is an industrial layer-3 router and Linux computing. It is a gateway to connect different network groups (Ethernet, fieldbus, serial or IO control) in a complex networking architecture and manage peripherals at the front-end site through its Linux programs. It is reliable (network

redundancy, system recovery) and robust (passive cooling, protected against the dusts and spills, shock & vibration resistance) to adopt in severe industrial vertical markets, such as transportation, substation, or hazardous environment.

Dimensions (Unit = mm)



Hardware Specifications

System Processor:

Intel Xscale IXP435 667MHz RISC-based

System memory: 128MB DDR2 RAM

System flash: 32MB

Ethernet: 10/100 Base-Tx RJ-45 connector x9

Storage: SD card slot x1 CF card slot x1 **USB:** USB 2.0 x3 (Host)

Supporting devices: USB flash, wireless dongle

Digital IO: 8 DIO (default 8 DI), DI or DO is defined by

customers

Console port: 3-pin header (RS232 interface)

LED per unit:

Power on/ off (Green on/ off) x2 LED on Ethernet port:

Link/ Activity (Green on/ blinking) Fdx/Col status (Yellow on/ blinking)

Power on/off switch x2

(when device power on, it needs to power on 4~8 LAN switch board first, then power on the main board)

Reset button x1 HW Watchdog timer:

Generates a time-out system reset, 1sec

Power Supply:

Two main power inputs

DC 12~48V

Power Consumption: 35W

OS support: Embedded Linux 2.6.20 Mechanical

Construction:

Rugged Aluminum Alloy Chassis, IP31 protection

Color: Silver

Mounting: DIN rail (wall mount optional) **Dimension:** 160(H) x 112 (W) x 102 (D) mm

Net weight: 1.2kg **Environment** Operating Temp:

-40 ~ 176°C(-40 ~ 80°C)**, 5 to 95% RH

Storage Temp: $-40 \sim 176^{\circ}\text{C}(-40 \sim 80^{\circ}\text{C})$, 5 to 95% RH

Regulation: FCC class A, CE

EN55022 class A, EN55024, EN61000-3-2, 3

EN61000-4-2, 3, 4, 5, 6, 8, 11

Shock: IEC60068-2-27 (50g peak acceleration)

Vibration:

IEC60068-2-6 (5g/ 10~150Hz/operating) MTBF: Greater than 200,000 hours @ 25°C

Warranty: 5 years

*Specifications may change without prior notice

Industrial Intelligent NMS

Rackmount PoE Plus

Industrial PoE Plus

12-24V

Industrial PoE Switch

L3/L2 Switch

Gigabit Managed

Managed Ethernet

Entry-level

Wireless

Embedded PoE/Router (LINUX)

Industrial Communication Computer (WIN/LINUX)

Ethernet/PoE/

Media

Serial Device

SFP Module Din Rail



Feature Specifications

WAN Interface

Ethernet: 10/100 Base-Tx RJ-45 connector x1,

auto MDI/MDI-X **LAN Interface**

Ethernet: 10/100 Base-Tx RJ-45 connector x8,

auto MDI/MDI-X

Routing per VLAN: Support port-based VLAN and

IEEE802.1Q VLAN

Quality of Service: Four priority queues per port,

802.1p COS and IP Layer TOS/DiffServ

Ethernet Performance

Transfer Rate: 14,880 pps for Ethernet port and

148,800 pps for fast Ethernet port

Transfer Packet Size: 64 bytes to 1522 bytes

(with VLAN tag)

MAC address: 1K MAC address table

Memory Buffer: 512 Kbits **IP Routing Service**

Static routing

Dynamic routing: RIP, RIP-II, OSPF, ISIS*, BGP*, DVMRP

PPP **PPPoE** IP Firewall/ Perimeter Security

IP address and port filtering NAT/ DMZ

VPN: L2TP, PPTP, SLIP, VLAN, IPsec, OpenVPN, GRE*,

NHRP*, DMVPN*

Management & Security

Security

HTTPS, SSH, SFTP

WebUI Webmin (optional)

Linux shell access via TELNET connection or console port

SNMP v1, v2c, v3: MIB and traps

MIB-II, Bridge MIB, Ethernet-like MIB, VLAN MIB

Proprietary SNMP MIB sample code

NTP for time management

Technology

Standard:

IEEE802.3 10Base-T Ethernet

IEEE802.3u 100Base-Tx Fast Ethernet

IEEE802.3x Flow Control and Back-pressure

IEEE802.1p Class of service

IEEE802.1Q VLAN

Processing: Store and Forward architecture Packet filter: Broadcast packet filtering *Specifications may change without prior notice

Linux Specifications

Embedded Linux

Bootloader: JetBox bootloader

Linux Kernel: 2.6.20 Shell: GNU ash

File system: jffs2, NFS, Ext2, Ext3, VFAT, FAT

Device drivers: USB, Watchdog timer, UART, Ethernet, DIO, PoE, SD/mSD card, CF card, HW IPsec VPN, HW Open VPN, JetCard1608/ 2105/ 2154G, VGA*, Mobile

dongle*, GPS dongle*

Protocols: ARP, PPP, CHAP, IPv4, IPv6, PAP, ICMP, TCP, UDP, NFS, SNMP v1/v2c/v3, NTP, SSH1.0/2.0, SSL, OpenVPN, Ipsec, PPP, PPPoE, PPTP, FTP, HTTP, SMTP, DNS, L2TP, DVMRP, OSFP, RIP v1.0/2.0, BGP*, ISIS*, VRRP*, 802.11*, HSDPA*, GPRS* telnet, dhcp, VLAN

SW package: Busybox (telnetd, inetd, udhcp, syslogd), e2fsprogs, firmware, i2c-tools, microcom, mtd, netcat, pciutils, ser2net, setserial ssdutil, usbmount, usbutils, version, bridge-utils, ethtool, iptables, net-snmp, ntp, openssh, openssl, openvpn, openswan, pppd, rp-pppoe, poto-linux, proftpd, samba, goahead, mutt, bind, l2tp, mrouted. quagga, vrrpd, wireless-tools, wvdial

WebUI (optional) includes:

Webmin by Korenix: DIO, PoE, Device Server (TCP Server mode), DHCP, DMVPN, DVMRP, Firmware Upgrade, GPRS, Modbus Gateway*, Module Upgrade, OSPF, RIP, Switch Port,

VLAN

Webmin basic

Webmin system

Webmin servers Webmin others

JavaVM (optional)

Korenix Linux auto-run function

Customized configuration Process monitoring

SDK

Linux tool chain: Gcc(C/C++ PC cross compiler), uClibc

Linux sample code

Note: Software supports differ from HW functions of each model

Ordering Information

JetBox 9435-w Embedded 8-port VPN Routing Computer

Includes:

- JetBox 9435-w
- Console cable x1
- Attached 2 pin power terminal block x2
- Attached 5-pin DIO terminal block x 2
- Attached blanket to cover SD card slot
- Attached name plate to cover CD card slot
- Quick installation guide
- Documentation and software CD-ROM

Optional Accessories

Additional applications on CF card: CF card capacity is 2G
CF2G-L-J Webmin UI & JamVM for Linux

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> Industrial 12-24V

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