

JetBox 8150

Industrial Communication Computer



CE FC RoHS



■ High Performance Multimedia Processor

1. VIA Eden V4 1GHz, 128K L2 cache
2. Multimedia processor CX700M
3. DDR2 1GB (200-pin SoDIMM)
4. Max. 128MB VGA memory
5. High resolution audio

■ Sophisticated Enclosure for Demanding Operation

1. Fan-less, aluminum heat-sink frame housing to enhance heat dispersion
2. Industrial design for anti-vibration & anti-shock

■ Abundant Interfaces to Integrate Connectivity

1. Dual Ethernet, 2 COM, 2 USB
2. 1 CompactFlash Card Type I/II Socket
3. 1 SATA (2.5" HD option)
4. 2 Audio connectors (Mic/ Line-in & Line-out)

■ Ready-to-use

1. Windows XP embedded
2. Linux Fedora10 with VPN



Industrial Intelligent NMS
Rackmount PoE Plus Switch
Industrial PoE Plus Switch
Industrial 12-24V PoE Switch
Industrial PoE Switch
Rackmount L3/L2 Switch
Gigabit Managed Switch
Managed Ethernet Switch
Entry-level Switch
Wireless Outdoor AP
Embedded PoE/Router Computer (LINUX)
Industrial Communication Computer (WIN/LINUX)
Ethernet/PoE/Serial Board
Ethernet I/O Server
Media Converter
Serial Device Server
SFP Module
Din Rail Power Supply

Overview

The JetBox 8150 is a VIA Eden V4 1GHz based computer with system memory 1GB DDR2 RAM and built in media processor for multimedia performance enhancement. Volume and performance of the JetBox 8150 is utilized as a perfect front end device: compact design, DIN-rail type mouting, and carrying all major interfaces, such as two USB2.0 ports, one RS-232 port, one RS232/422/485 port, VGA, and high resolution audio. In addition, it is equipped with two RJ-45 ports and supports web server services to accommodate to the network communication environment today.

Windows Embedded ready

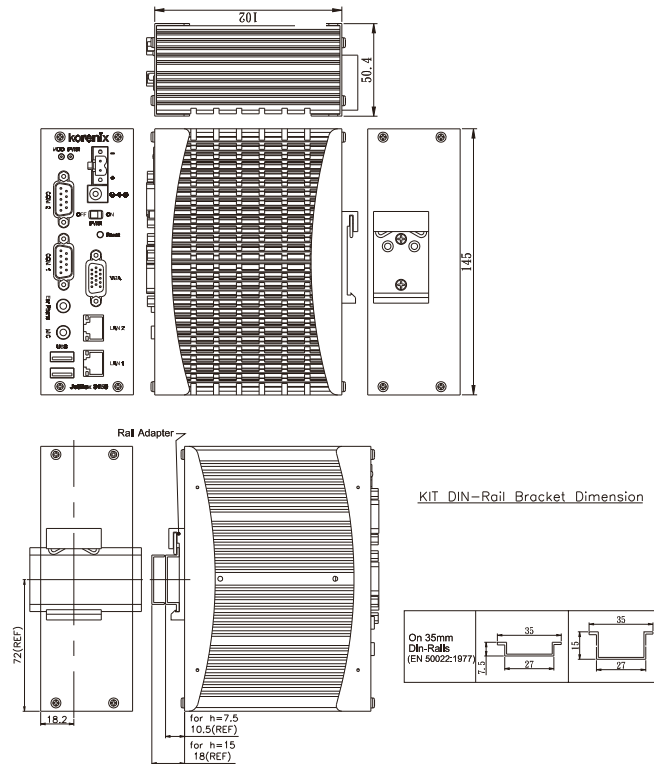
The advantage of adopting Korenix JetBox series is ready-to-use. Korenix is devoted to improve the usability of embedded computer in industrial domain. Korenix integrates device drivers, protocol stacks,

system utilities, supporting services for Windows XP embedded in a CompactFlash card or in a 2.5" HD installed in the JetBox 8150 to let users experience JetBox 8150 in a simple way.

Linux Fedora with VPN ready

The standard Fedora 10 targets general users; therefore it includes office tools, a lot of fonts and games which is not necessary for industrial applications. Korenix remove these commercial tools and add popular SW modules such as openVPN and openSWAN to compress the Fedora 10 size to 2.7G and stored in a CF card. A CF card is much reliable than a hard drive when a device is installed in a hash or vibrational environment. Hence, the JetBox 8150 with pre-installed Linux CF card is a ready-to-use solution. It is easier and more convenient for customers.

Dimensions (Unit = mm)



Hardware Specifications

System

Processor:

VIA Eden V4 1GHz (128KB L2 cache inside)
Low power CPU, fanless

System memory: 1GB DDR2 RAM

Storage:

CF card slot x1
SATA slot x1 (for 2.5" HD)

Ethernet: 10/100 Base-Tx RJ-45 connector x2

Serial Port: RS-232 x1, RS232/422/485 x1

Audio: Ear-telephone/line-in and MIC-in

USB: USB2.0 x2

System control: Power on/off switch x1, reset button x1

Power supply: DC input 12~24V (2-pin terminal block or power jack)

Power Consumption: 1.26A maximum (0.82A typical) with DC 19V input.

LED per Ethernet port (on the port):

Link/Activity (Green on/Green blinking)
Full Duplex/Collision (Yellow on/ Yellow blinking)

LED per unit:

Power on/activity x1 (on/ blinking)
HDD on/activity x1 (on/ blinking)

HW Watchdog timer:

Generates a time-out system reset; the time-out period can be programmed to be set from 1 to 255 seconds

Operating System

Verified OS: Windows 2000/XP, WinCE.NET, XP embedded, Linux

OS supported by Korenix: XP embedded, Linux (optional)

Mechanical

Construction:

Rugged Aluminum Alloy Chassis, IP31 protection

Color: Silver

Mounting: DIN-rail

Dimension: 145(H) x 50 (W) x 102 (D) mm

Net weight: 0.7kg

Environment

Operating Temp: 5 ~ 158°F (-15 ~ 70°C), 5 to 95% RH

Storage Temp: -4 ~ 176°F (-20 ~ 80°C), 5 to 95% RH

Regulation: FCC class B, 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 76,493 hours @25°C

Warranty: 5 years

Windows XP Embedded Specification

Protocol Stacks: DHCP, IPv4, DNS, IPsec, HTTP, TCP, UDP, ICMP, IGMP, ARP, TAPI, TSP, SNMP, NTP, ICS, PPP, CHAP, EAP, SNMP, Telnet, FTP, SMTP, PPPoE, PPTP, NetBIOS

System Utilities: Windows command shell, telnet, FTP, web-based administration manager, wireless zero configuration

Supporting Services: Telnet server, FTP server, IIS Web server, dial-up networking service, COM+, disk management service, remote registry service

Application Development Environment

- * Microsoft .net Framework 2.0 with service pack 2
- * Active directory service interface (ADSI) core
- * Active Template Library (ATL)
- * Certificate request client & certificate autoenrollment
- * COM APIs
- * Common control libraries

- * Common file dialogs
 - * Direct3D, DirectPlay, DirectShow, DirectShow filters
 - * Distributed transaction coordinator (MSDTC)
 - * File-based write filter (FBWF)
 - * Event log
 - * Internet explorer
 - * Mapi32 libraries
 - * Message queuing (MSMQ) core
 - * Microsoft visual C++ run time libraries
 - * Registry Editor
 - * RPC
 - * Smart card cryptographic service providers
 - * Windows API, Media Player 10, Windows script engines
- Device Drivers:** Audio, LAN, VGA, Watchdog timer

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Linux Specifications

Distribution: Fedora 10

Bootloader: Grub

Linux Kernel: 2.6.27

Shell: GNU bash

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

Device drivers: CF card, USB, Watchdog timer, UART, Ethernet, VGA, Audio

Protocol: ARP, PPP, CHAP, IPv4, IPv6, PAP, ICMP, TCP, UDP, NFS, IPsec, OpenVPN

Software packages: e2fsprongs, dosfstools, minicom, pciutils, rpm, yum, ethtool, iptables, net-snmp, ntp, openssh, openssl, openVPN, openSWAN, pppd, samba, wireless-tools, openjdk, apache web server, MySQL

Ordering Information

JetBox 8150 Industrial Communication Computer

Includes:

- JetBox 8150 x1
- Attached 2-pin power terminal block
- Frame kits to fix one SATA 2.5"HD on board
- Quick installation guide
- Documentation and software CD-ROM

Optional Accessories

System on CF card (capacity 4G), industrial CF card (capacity 2G), or HD (SATA interface, capacity 320G)

- CF4G-L Linux Fedora10
- ICF2G-P Windows XP embedded
- HD320G-P Windows XP embedded