JETBOX

JetBox 8152

Industrial Communication Computer with CANbus

CE FC RoHS

RS 232/422/485	CANbus	VGA
SATA	USB	Router

■ **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, 1 COM, 1 CAN, 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

Windows XP Embedded

Overview

The JetBox 8152 is a VIA Eden V4 1GHz based computer with system memory 1GB DDRII RAM and built in media processor for multimedia performance enhancement. Volume and performance of the JetBox 8152 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-232/422/485 port, one CANbus 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.
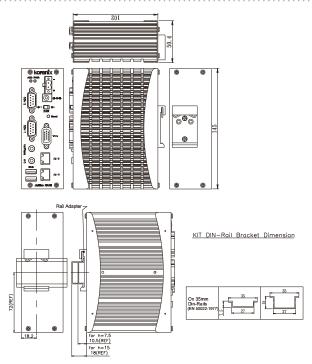
Windows Embedded ready

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 8152 to let users experience JetBox 8152 in a simple way.

CANbus supported

The JetBox 8152 supports the CANbus control in XPe. With CANbus, the JetBox 8152 is suitable for industrial applications with many nodes, the transmission distance within 10 km and more security required.

A Beijer Electronics Group Company

Dimensions (Unit = mm)

Rail Adapter

KIT DIN-Rail Bracket Dimension

On 35mm
Din-Rails
(EN 50022:1977)

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-232/422/485x1
Canbus x1 (DB9):
The CAN bus using the Philips SJA1000 controller,
electrically compatible with the PCA82C200
stand-alone CAN controller chip.
• Full CAN-functionality 2.0 B.
• Extended receive buffer (64 byte FIFO).
• 16 MHz CAN Control frequency
Audio: Ear-phone/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, XPembedded, Linux
OS supported by Korenix (optional): XP embedded

Mechanical
Construction:
Rugged Aluminum Alloy Chassis
Color: Silver
Mounting: DIN-rail
Dimension: 145(H) x 102(W) x 50(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/0~150Hz/operating)
MTBF: Greater than 76,493 hours @25°C
Warranty: 5 years

JET BOX

Windows XP Embedded Specification

Protocol Stacks: DHCP, IPv4, DNS, IPsec, HTTP, TCP, UDP, ICMP, IGMP, ARP, TAPI, TSP, SNMP, NTP, ICS, PPP, CHAP, EAP, SNTP, 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 .netFramework 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

Ordering Information

JetBox 8152 Industrial Communication Computer with CANbus

Includes:

- JetBox 8152 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)

- ICF2G-PC   Windows XP embedded with CANbus SW
- HD320G-PC Windows XP embedded with CANbus SW