

JetBox 8180

Industrial Communication Computer with GbE & DVI



CE FC RoHS



High Performance/ Low-power processor

- Intel Atom N270 1.6GHz, 512KB L2 Cache
- System chipset 945GSE + ICH7M
- DDR2 1GB (200-pin SoDIMM)
- DVI with dual display (option)
- High definition audio

Sophisticated Enclosure for Demanding Operation

- Fanless, aluminum heat-sink frame housing to enhance heat dispersion
- Industrial design for anti-vibration & anti-shock

Abundant Interfaces to Integrate Connectivity

- 1 GbE, 1 COM, 4 USB, 1 PS/2
- 1 CompactFlash Card Type I/II Socket
- 1 SATA (2.5" HD option)
- 3 Audio connectors (ear-phone, line-in, MIC)
- Mini-card slot for wireless module

Ready-to-use

- Windows XP embedded
- WES 2009

- 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

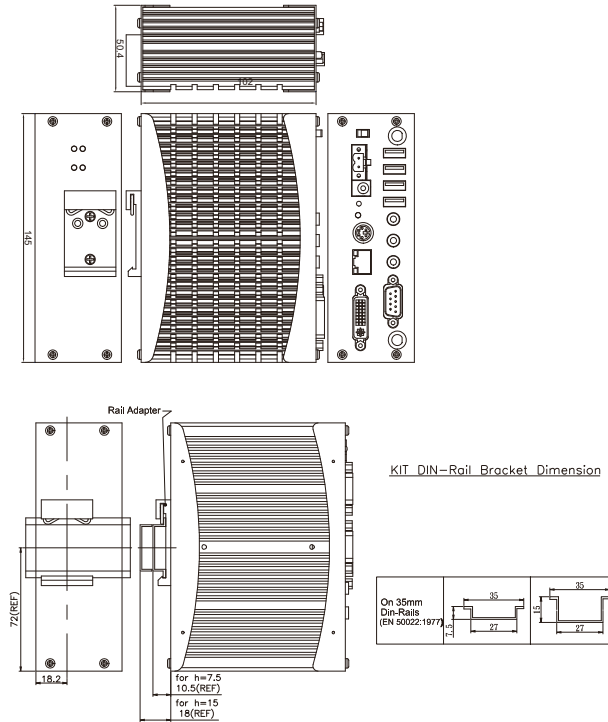
The JetBox 8180 is a ready-to-use Intel Atom 1.6GHz based computer with system memory 1GB DDRII RAM and system chipset 945GSE + ICH7M.

Korenix, devoted to improve the usability of embedded computer in industrial domain, integrates device drivers, protocol stacks, system utilities, supporting services for Windows XP embedded in a CompactFlash card or in a 2.5" HD and installed in the JetBox 8180 to let users

experience the computer in a simple way.

Combining all major interfaces, such as one Gigabit Ethernet port, four USB2.0 ports, one RS-232/422/485 port, one DVI (dual display option), and high definition audio into its compact design with DIN-rail type mounting, the JetBox 8180 communication computer provides flexible connectivities, as a result becoming a perfect front-end device for industrial applications.

Dimensions (Unit = mm)



Hardware Specifications

System

Processor:

Intel Atom N270 1.6GHz (512KB 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: 10/100/1000 Base-Tx RJ-45 connector x1

Serial Port: RS232/422/485 x1

DVI x1 (dual display, optional)

Mobile slot miniPCle x1, SIM x1

Audio: Ear-phone, line-in, MIC-in

USB: USB2.0 x4

PS/2: x1, for keyboard/mouse

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: 1.65A maximum (0.86A 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)

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, WES 2009 (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: 14 ~ 122°F (-10 ~ 50°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

XPe 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, DVI, Watchdog timer

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Computer
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**Industrial
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Serial Board

Ethernet
I/O Server

Media
Converter

Serial Device
Server

SFP Module

Din Rail
Power Supply

Ordering Information

JetBox 8180 Industrial Communication Computer with GbE & DVI

Includes:

- JetBox 8180
- 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 industrial CF (capacity 2G) or HD (SATA interface, capacity 320G)
ICF2G-P Windows XP embedded
HD320G-P Windows XP embedded