

■ JetBox 3350i-w

Embedded Compact 2 LAN & 2 Isolated Serial Linux Computer

















- Atmel ARM Processor with low power consumption for reliable performance
- Embedded Linux ready compact system for easy maintenance
- Linux SDK for quick time-to-market
- 2 LAN ports for Daisy-Chain Controller
- 2 USB for data storage
- 2KV Serial Isolation for device protection
- One microSD card slot for customized configurations
- Fan-less, ruggedized industrial design for anti-vibration/shock and -40~80°C wide operating temperature





Overview

JetBox 3350i-w is a compact-sized embedded Linux computer with low power consumption, designed to fit in small front-end controller system applications. Versatile interfaces, including Ethernet, USB and isolated Serial ports are integrated in a tiny box to fit in a small system with different operational requirements - from networking, to data storage, to signal control.

The computers are designed with IP31 rugged enclosure, fan-less, anti-vibration/shock design. Moreover, to withstand the unfavorable environmental conditions, the RISC-based computers with low power consumption come with 2KV isolated serial ports and -40~80°C wide operating temperature, and therefore are the best solutions for deploying in harsh industrial environments.

Embedded Linux Ready

Korenix is devoted to the Linux computing and benefits customers by providing the JetBox series with embedded Linux ready system and easy-to-use interface. Compared to general purpose Linux system, embedded Linux is performance-optimized for front-end industrial control.

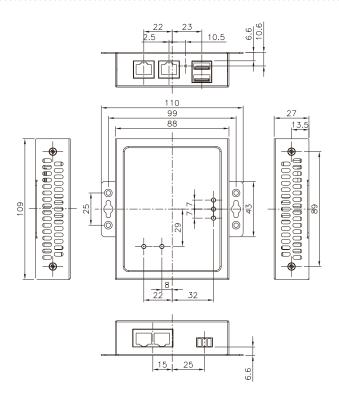
RISC-Based Computer with low power consumption

The JetBox 3350-i is a RISC-based computer with lower power consumption and is stable and reliable. The JetBox 3350-i carries 2 LAN ports, 2 USB ports and 2 Serial ports to be the best solution in industrial control.

Isolated Serial Port

The JetBox 3350-i provides 2KV isolation protection for two RS232/422/485 ports; therefore it is suitable to adapt to the critical industrial environments.

Dimensions (Unit = mm)



Hardware Specifications

System Processor:

Atmel ARM AT91RM9200 180 MHz System memory: 64MB SDRAM System flash: 16MB ROM

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

microSD card slot x1

Serial port: RS232/422/485 x2 (RJ45 connector)

with 2KV isolation protection USB: USB 2.0 full speed x2 (Host)

Supporting devices: USB flash, wireless dongle

LED on Ethernet port:

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

LED per unit:

Power on/off x1 (Green on/off)

Ethernet Link/ Activity (Green on/ Green blinking) x2 Serial Tx only(Green),Rx only(Red),Both (Orange) x2

Reset button x1 HW Watchdog timer:

Generates a time-out system reset, 1sec

Power Supply: DC 12~48V Power Consumption: 7.2W OS support: Embedded Linux 2.6.21

Mechanical

Construction: Sheet metal case Color: Silver Mounting: Wall mount/DIN rail Dimension: 109(H) x 88(W) x 27(D) mm

Net weight: 0.5kg **Environment**

Operating Temp: $-40 \sim 176^{\circ}$ F($-40 \sim 80^{\circ}$ 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

Industrial Intelligent NMS

Rackmount PoE Plus

Industrial PoE Plus

Industrial 12-24V

Industrial PoE Switch

L3/L2 Switch

Gigabit Managed

Managed Ethernet Switch

Entry-level

Wireless

Embedded PoE/Router (LINUX)

Industrial Communication Computer (WIN/LINUX)

Ethernet/PoE/

Media

Serial Device Server

SFP Module

Din Rail



Linux Specifications

Embedded Linux (JetOS93 lite)

Bootloader: JetBox bootloader Linux Kernel: 2.6.21

Shell: GNU ash

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

Device drivers: microSD card, USB, Watchdog timer, UART,

Ethernet

Protocol: ARP, PPP, CHAP, IPv4, PAP, ICMP, TCP, UDP, NFS Software packages: busybox (telnetd, inetd, udhcp, syslogd), diocfg, Irzsz, minicom, microcom, , ncurses, ser2net, setserial, bridge-utils, ethtool, goahead web server, iptables, net-snmp, ntp, openssh, openssl, pppd, ftpd, rp-pppoe, smtpclient,

wireless-tools

Korenix Linux auto-run function

Customized configuration Process monitoring

Serial Interface

Serial service modes: TCP server

LAN Interface

Ethernet: 10/100 Based-Tx RJ-45 connector x2,

auto MDI/MDI-X

Management & Security

Security HTTPS, SSH SNMP: MIB and traps NTP for time management

SDK

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

libstdc++

Linux sample code

Ordering Information

JetBox 3350-iw Embedded Compact 2 LAN & 2 Isolated Serial Linux Computer

Includes

- JetBox 3350-iw
- $\,\blacksquare\,$ Serial cable (RJ45 to DB9 male, 150cm) x2
- Attached 3-pin power terminal block
- DIN rail kits
- Quick installation guide
- Documentation and software CD-ROM

Optional Accessories

Additional applications on micro-SD card: micro-SD card capacity is 1G/2G mSD1G-LM mSD 1G, Modbus gateway for Linux mSD2G-LM mSD 2G, Modbus gateway for Linux