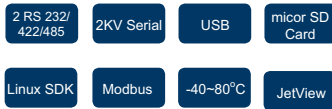


## JetBox 3350i-w

### 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

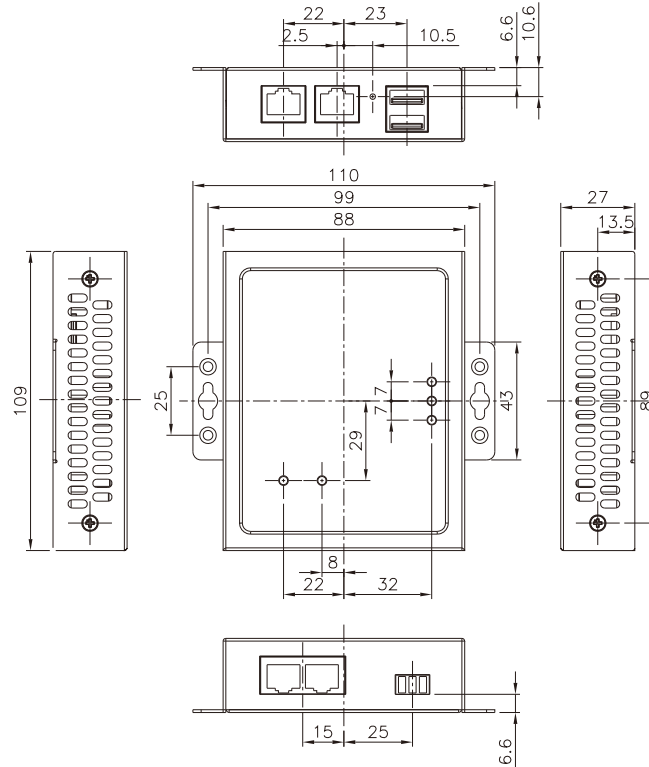
Korenix is devoted to the Linux computing and benefits customers by providing the JetBox series with embedded Linux ready system and easy-to-use interface. Compared to general purpose Linux system, embedded Linux is performance-optimized for front-end industrial control.

JetBox 3350i-w support JetView management tool for device discovery, IP modification and firmware upgrade; which enable customers to manage JetBox devices easily. Also, JetBox 3350i-w support ModbusGW, Modbus2SNMP to be the best solution in industrial device control.

### Isolated Serial Port

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

## Dimensions (Unit = mm)



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
<b>Embedded PoE/Router Computer (LINUX)</b>
Industrial Communication Computer (WIN/LINUX)
Ethernet/PoE/ Serial Board
Ethernet I/O Server
Media Converter
Serial Device Server
SFP Module
Din Rail Power Supply

## 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

#### Storage:

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/ system ready x1 (Green on/ Green blinking)

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 ~ 176°F(-40 ~ 80°C), 5 to 95% RH

**Storage Temp:** -40 ~ 176°C(-40 ~ 80°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



## 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, Bluetooth

**Protocol:** ARP, PPP, CHAP, IPv4, PAP, ICMP, TCP, UDP, NFS, SNMP v1/v2c/v3, NTP, SSH1.0/2.0, SSL, OpenVPN, PPP,

PPPoE, SMTP, 802.11, telnet, dhcp, L2CAP, RFCOMM, BNEP

**Software packages:** busybox (telnetd, inetd, udhcp, syslogd), diocfg, lrzsz, minicom, microcom, , ncurses, ser2net, setserial, bridge-utils, ethtool, goahead web server, iptables, net-snmp, ntp, openssh, openssl, pppd, ftpd, rp-pppoe, wireless-tools, wvdial, openvpn, msmtmp, bluez-utils, obexftp

### 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

**JetView:** Device Discovery, Change IP, Firmware Upgrade

### 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
- 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 2G/4G  
mSD2G-LM mSD 2G, Modbus gateway for Linux  
mSD2G-LM2S mSD 2G, Modbus2SNMP for Linux  
mSD4G-LM mSD 4G, Modbus gateway for Linux  
mSD4G-LM2S mSD 4G, Modbus2SNMP for Linux