

JetBox 3300-w

Embedded Linux Computer: 2 LAN, 2 Serial, 16 DIO



- Embedded Linux ready
- Linux SDK (toolchain, cross-compiler) provided
- Atmel ARM AT91RM9200 180 MHz, fanless
- 2 LAN, 2 RS232/422/485, 16 DIO
- One microSD card slot
- -40~80°C operating temperature



Overview

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

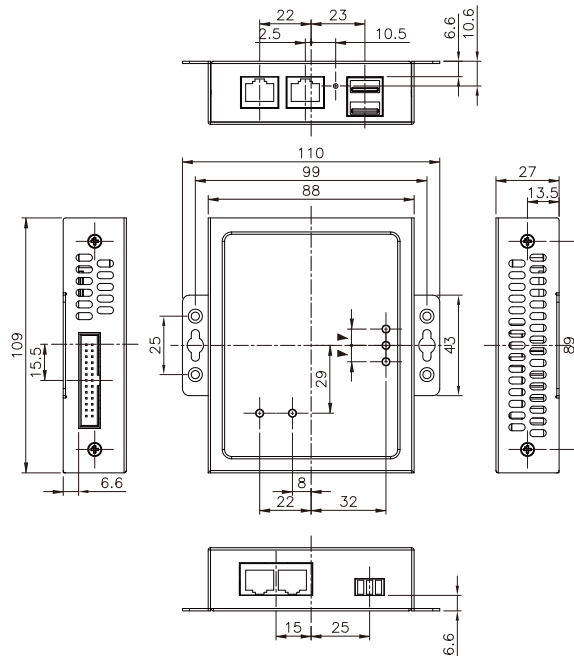
The JetBox3300 is a RISC-based computer with lower power consumption and is stable

and reliable. The JetBox3300 carries 2 LAN ports, 2 USB ports, 2 Serial ports, and 16 Digital IOs to be the best solution in industrial control.

Digital Input & Output

Digital inputs and outputs are widely used in industrial applications such as indicators, alarms, reed switches, or sensors. The compact JetBox carries as many as 16 DIO channels and work as a front-end control agent.

Dimensions (Unit = mm)



Industrial
PoE Switch

IP67/68
Ethernet Switch

Rackmount
Managed
Switch

Gigabit Switch

Redundant
Switch

Entry-Level
Switch

Networking
Computer

Communication
Computer

Ethernet
I/O Server

Serial Device
Server

Media
Converter

Multiport
Serial Card

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)

USB: USB 2.0 full speed x2 (Host)

Supporting devices: USB flash, wireless dongle

Digital IO: 16 DIO

LED per port (on the port):

Link/Activity (Green on/ Green blinking)

Full Duplex/Collision (Yellow on/ Yellow 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:

Rugged Aluminum Alloy Chassis, IP31 protection

Color: Silver

Mounting: Wall mount

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

IEC 60950

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

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

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, rppoe, 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 3300-w Atmel 180MHz, 12~48V DC, 64MB SDRAM

Includes:

- JetBox 3300-w x1
- Serial cable (RJ45 to DB9 male, 150cm) x2
- Attached 3-pin power terminal block
- Quick installation guide
- Documentation and software CD-ROM

Optional Accessories

- Additional applications on micro-SD card: micro-SD card capacity is 1G
mSD1G-LM mSD 1G, Modbus gateway for Linux
- JetBox3300 isolation DIO kits