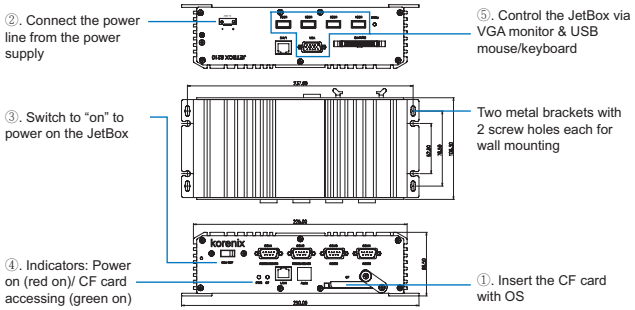
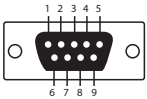
## Packing List

- JetBox 8210
- Quick Installation Guide
- Documentation and Software CD-ROM

## Mechanical Outline




## PIN Assignment—RS232/422/485 (DB9 connector)

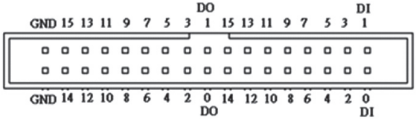



Note: In RS-485 4-wire mode, PIN5&8 in the DB9 connector of the cable need to be wired together for the mode detection.

| Pin No. | RS-232 | RS-422 | RS-485 (4-wire) | RS-485 (2-wire) |
|---|---|---|---|---|
| 1 | DCD | TxD-(A) | TxD-(A) | Data-(A) |
| 2 | RxD | TxD+(B) | TxD+(B) | Data+(B) |
| 3 | TxD | RxD+(B) | RxD+(B) | |
| 4 | DTR | RxD-(A) | RxD-(A) | |
| 5 | GND | GND | GND | GND |
| 6 | DSR | RTS-(A) | | |
| 7 | RTS | RTS+(B) | | |
| 8 | CTS | CTS+(B) | | |
| 9 | | CTS-(A) | | |

## PIN Assignment—DIO

**(High: voltage3.3V; Low: voltage 0V)**




## General Information

**Dimension:** 250 (w) x 66.5 (H) x 106.3 (D) mm

**Net weight:** 1.07kg

**Operating temperature:** -15°C ~ 70°C, 5 to 95% RH

**Power supply:** DC input 9VDC ~ 36 VDC

**WinCE5.0**

### Start up (system on CompactFlash): File formats FAT12, FAT16

Users insert Korenix CF card and power on JetBox8210, and the system will be ready and execute the applications in the AutoRun list automatically.

### AutoRun List (in \My Device\Windows)

- First, launch AutoRun.lnk of JetBox. Go to \\Windows\AutoRun.lnk.
- You could type the file directory directly or you could click " ... " button to search the application you want to add into AutoRun list. Click New and then Save & Exit

### Connect Your Workstation with JetBox

**Via serial cable and Activesync**

- Download and Setup Microsoft ActiveSync version 3.8 or above (http://www.microsoft.com/downloads/) in your PC.
- Use a Serial cable to connect the JetBox to your PC.

Note: Need to use a full 9-pin RS-232 null modem cable for activesync connection

**Via network**

- Use network & dial up connection

## Application Development: Microsoft eMbedded Visual C++4.0

**1. Setup Platform SDK**

- Launch the Platform SDK setup file (.msi) to start setup wizard in your PC.

**2. Create Your Own Application with eVC++4.0.**

**3. Download Your Own Application Program to JetBox 8210 Via ActiveSync**

- Before downloading the application, make sure the ActiveSync connectivity has been established successfully between your workstation and JetBox8210.
- Select Tools | Explore to manage files

**Via CF card**

- The application program can be copied to the CF card (under storage card folder), and be executed in JetBox directly.

# Linux2.6.18

## Start up (system on CompactFlash): File formats Ext3

Users insert Korenix CF card and power on JetBox8210, and the system will be ready.

## Connect Your Workstation with JetBox

To log in, type the Login name and password as requested. The default values are

**Login: root & Password: < none >**

**Via serial cable**

- Connect one RS-232 port of the JetBox to your PC by a RS-232 null modem cable.
- The default setting of the JetBox Linux for RS-232 ports:

Baud rate 11520bps, parity none, data bits 8, stop bits 1, flow control none

**Via telnet**

- Firstly, you should modify the IP address and subnetmask of your PC to make your PC be in the same subnet as the JetBox 8210.

- To connect the JetBox 8210 to your PC directly, use a cross-over Ethernet cable.
- To connect the JetBox 8210 to your local LAN via a hub or a switch, use a straight-through Ethernet cable.

## Linux SDK

JetBox SDK must be installed on your host computer running Linux with glibc 2.3.x. We have confirmed that Fedora Core 6 Linux distribution can be used to install the tool chain.

Using the command tar to uncompress the SDK archive jetbox_sdk-0.8.4.tgz at the directory where you want to complete the installation.

cd /usr/src

tar xfz jetbox_sdk-0.8.4.tgz

## Application Development

**Developing on a Linux PC**

1. Create a directory under ap_src_dir/ and put the source code into this directory.
2. Create a makefile (a controlling file) in ap_src_dir/ for this application. The makefile extension must be ".gzmk".
3. Use the command make on the top directory of SDK. The application will be built and the executable binary will be generated in the directory root_dir/.

**Porting to the JetBox**

4. Put the executable binary into the JetBox booting CF card.



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