JetBox 8100
Industrial Compact X86 Communication Computer

■ **Efficient and steady**
   1.AMD GEODE LX800 500MHz
   2.System memory 256MB, 64MB VGA
■ **Small volume with core interfaces**
   Ethernet, 2COM, 2USB, VGA, Audio, PS2(KB/Mouse),
   IDE Slot (2.5" HD or DOM), CF card slot
■ **Ready to use:**
   1. Embedded Linux/Win CE/XPe OS ready
   2. System Management Utility
   3. Application Development Environment
   4. Modbus gateway (optional)
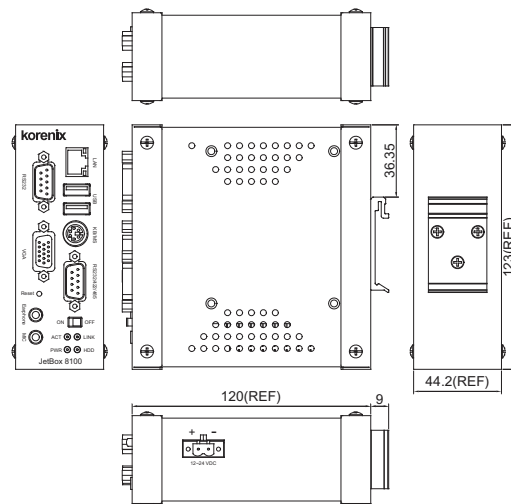
CE FC RoHS

Overview

The advantage of adopting the JetBox series is that it is ready-to-use out of the box. Korenix is devoted to improving the usability of embedded computer in industrial domain. Korenix integrates device drivers, protocol stacks, system utilities, supporting services and daemons for Linux, WinCE and Windows XP embedded in built-in CompactFlash card to let users experience JetBox 8100 in a simple way.

Korenix also provides application development toolkits for users to build their own applications easily. When devices are used in an industrial site, dimensions of devices are often limited by the space. JetBox 8100 is designed to be implemented in restricted control boxes by its tiny volume and DIN-rail mounting. Volume and performance of JetBox 8100 makes it the perfect front-end device.

JetBox 8100 is an AMD Geode LX800 500MHz based embedded computer, system memory 256MB SDRAM default (512MB optional) and carries all major interfaces such as two USB2.0 ports, one RS-232 ports, one RS-232/422/485 ports, VGA, Audio and PS2(KB/mouse). In addition, it is equipped with one RJ-45 ports and supports daemons and web server services to making it ideal for todays network communication environments.

JET BOX

Dimensions (Unit = mm)

Hardware Specifications

System
Processor: AMD GEODE LX800 500MHz
System Memory: SDRAM 256MB, Max. 512MB (Optional)
VGA: Up to 64MB sharing system memory, DB-15 connector
Ethernet: 10/100 Based-TX RJ-45 connector x 1
SSD: Type II CompactFlash slot x 1
HD: IDE Slot x 1 (for 2.5" HD or DOM)
Serial Port: RS-232x1, RS-232/422/485x1
Audio: Microphone in/ Line out
USB: USB 2.0 x 2
System Control: Power on/off switch x1, Reset button x1
Power Supply: DC input: 12 ~ 24 VDC with 15% telerance 11VA maximum with 2.5" HD and 24V input voltage
OS support:
Embedded Linux 2.6.18

WinCE 5.0

Windows XP embedded

Mechanical
Construction: Sheet metal case
Color: Silver
Mounting: DIN Rail
Dimension: 44.2(W) x 123(H) x 120(D) mm
Net weight: 0.7 kg

Environment
Operating Temp:
5 ~ 158°F (-15 ~ 70°C), 5 ~ 95% RH(w/o HD)
Storage Temp:
-4 ~ 176°F (-20 ~ 80°C), 5 ~ 95% RH(w/o HD)
Anti-Vibration: IEC60068-2-6 5g / 10 ~ 150Hz / operating
Anti-Shock: IEC60068-2-27 / 30g peak acceleration
Regulation: CE/FCC class A
Warranty: 5 years

Software Specifications

Embedded Linux: Linux Version 2.6.18
Protocol Stack: TCP, UDP, IPv4, SNMP, ICMP, IGMP, ARP, HTTP, CHAP, PAP, SSH1.0/2.0, SSL, DHCP, NTP, NFS, SMTP, Telnet, FTP, PPP, PPPoE
System Utilities: bash, busybox, tinylogin, telnet, ftp,
Supporting Services and Daemons:

telnetd: Telnet server daemon
ftpd: FTP server daemon
sshd: Secure shell server
Apache: Web server daemon, supports PHP and XML
MySQL: Database server and client
OpenVPN: Virtual private network service manager

iptables: Firewall service manager
pppd: Dial in/out over serial port daemon
snmpd: snmpd agent daemon
inetd: TCP server manager program
Application Development Environment:
Korenix Linux API Library
Linux Tool Chain: Gcc, Glibc
Device Drivers: CF Card, USB, Watchdog Timer, UART, VGA, Audio

Windows CE 5.0
Protocol Stack:TCP, UDP, IPv4, SNMP, ICMP, IGMP, ARP, HTTP, CHAP, PAP, SSL, DHCP, SNTP, SMTP*, Telnet, FTP, PPP
System Utilities: Windows command shell, telnet, ftp, web-based administration manager
Supporting Services and Daemons:
Telnet server: Allows remote administration through a standard telnet client
FTP server: Used for transferring files to and from remote computer systems via a network

Web server (httpd): WinCE IIS, offer ASP, ISAPI Secure Socket Layer support, SSL 2, SSL 3, and Transport Layer Security (TLS/SSL 3.1) public key-based protocols, and Web Administration ISAPI Extensions.
Dial-up networking service: RAS client API and PPP, support Extensible Authentication Protocol (EAP) and RAS scripting
Application Development Environment:
WinCE 5.0 SDK
C Libraries and Run-times
Component Services (COM and DCOM)
Microsoft Foundation Classes (MFC)
Microsoft®.NET Compact Framework
XML, including DOM, XQL, XPATH, XSLT, SAX2
SOAP Toolkit
Winsock 2.2
Device Drivers: CF card, USB, Watchdog timer, UART, VGA, Audio

*Supported by WinCE professional

Ordering Information

JetBox 8100d-256 AMD GEODE 500MHz, 12 ~ 24VDC, 256MB SDRAM
JetBox 8100d-512 AMD GEODE 500MHz, 12 ~ 24VDC, 512MB SDRAM
Includes:
- JetBox 8100 AMD GEODE 500MHz industrial communication computer
- Y-type (3-end) PS/2 keyboard plus mouse port adapter cable
- 2-pin apartable terminal block
- 44-pin flat cable and 4 screws for fixing and connecting a 2.5" hard disk drive
- Quick installation guide
- Documentation and software CD-ROM

Optional Accessories

System on CF, industrial CF (capacity 2G) or HD (IDE interface, capacity 160G)
- CF2G-CC WinCE5.0 Core
- CF2G-CCM WinCE5.0 Core, Modbus gateway
- CF2G-CP WinCE5.0 Pro
- CF2G-CPM WinCE5.0 Pro, Modbus gateway
- ICF2G-P Windows XP embedded
- HD160G-P Windows XP embedded