

JetBox 8100

Industrial Communication Computer

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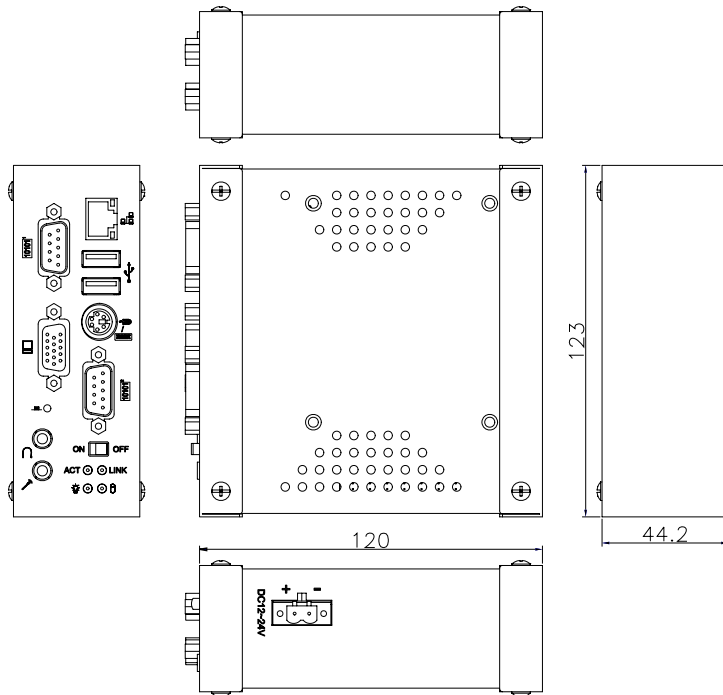
- **Efficient and steady**
 1. AMD GEODE LX800 500MHz
 2. System memory 256MB, 64MB VGA
- **Small volume with core interfaces**
Ethernet, 2COM, 2USB, VGA, Audio, PS2(KB/Mouse),
2.5" HDD IDE Slot
- **Ready to use:**
 1. Embedded Linux/Win CE/XPe OS ready
 2. System Management Utility
 3. Application Development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

Overview

The advantage of adopting Korenix JetBox series is ready-to-use. Korenix is devoted to improve 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. Besides, Korenix also provides application development toolkits for users to build up their own applications easily. When devices are used in a work field, dimension of devices is often limited by the space. JetBox 8100

is designed to apply in restricted control boxes by its tiny volume and DIN-rail mounting. Volume and performance of JetBox 8100 is utilized as a 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 accommodate to the network communication environment today.

Dimensions (Unit = mm)



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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: 2.5" HD IDE Slot x 1
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
Watchdog Timer: Generates a time-out system reset, 1 sec
Power Supply: DC input: 12 ~ 24 VDC
OS support:
 Embedded Linux 2.6.18
 WinCE 5.0
 Windows XP embedded

Mechanical

Construction: Sheet metal case
Color: Mysterious 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)
EMC: CE/FCC class A, UL
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 AMD GEODE 500MHz, 12 ~ 24VDC, 256MB SDRAM

All items include:

- JetBox 8100 AMD GEODE 500MHz industrial communication computer
- Y-type (3-end) PS/2 keyboard plus mouse port adapter cable
- 2-pin apatable 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 CompactFlash (capacity 2G) or HD (capacity 120G)

CF	Part number: CF2G-x	L	LM	CC	CP	CCM	CPM	P	PM
HD	Part number: HD120G-X	L	LM	CC	CP	CCM	CPM	P	PM
Linux		•	•						
WinCE	Core			•		•			
	Professional				•		•		
Windows XP embedded								•	•
Modbus, Modbus/TCP			•			•	•		•
System management utility		•	•	•	•	•	•	•	•

Ex: Part number CF2G-CCM is CF card (capacity 2G) with WinCE Core version OS, Modbus and Modbus/TCP.