

eBOX620-823-FL

Fanless Embedded System with Intel® Atom™ Processor Z510/520PT and Intel® SCH US15WPT Chipset



Front view



Rear view

Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel
CPU	Intel® Atom™ processor Z510/520PT 1.33 GHz
System Memory	1 x 200-pin DDR2 SODIMM max. up to 1GB
Chipset	Intel® SCH US15WPT
BIOS	AMI 8Mbit with RPL/PXE LAN boot ROM
System I/O Outlet	2 x RS-232 (COM 1/2) 1 x VGA 1 x Audio (Mic-in/Line-out) 1 x PS/2 keyboard/mouse 1 x 10/100/1000Mbps Ethernet 4 x USB 2.0 1 x SMA type connector opening 1 x V _{oc} power input connector 1 x ATX power switch
Watchdog Timer	255 levels, 0-255 sec.
Storage	1 x 2.5" SATA HDD drive bay 1 x CompactFlash™
Expansion Interface	1 x Express Mini card (USB signal)
System Indicator	1 x green LED for system power-on 1 x orange LED for HDD active
Power Supply	12V DC-in
Operating Temperature	-20°C-70°C (-4°F-158°F) (with 1.33 GHz CPU, W.T. HDD)
Storage Temperature	-20°C-80°C (-4°F-176°F)
Humidity	10%-90%, non-condensing
Vibration Endurance	1Grms w/ HDD (5-500Hz, X, Y, Z directions)
Dimensions	200mm (7.87") (W) x 120mm (4.72") (D) x 56mm (2.2") (H)
Weight (net/gross)	1.8 kg (3.97 lb)/2.6 kg (5.73 lb)
Certification	CE
EOS Support	XPE, CE, Linux

*W.T.: Wide Temperature. All W.T. supported products have to be sorted by AXIOMTEK.

**XPE: Windows® XP Embedded

Features



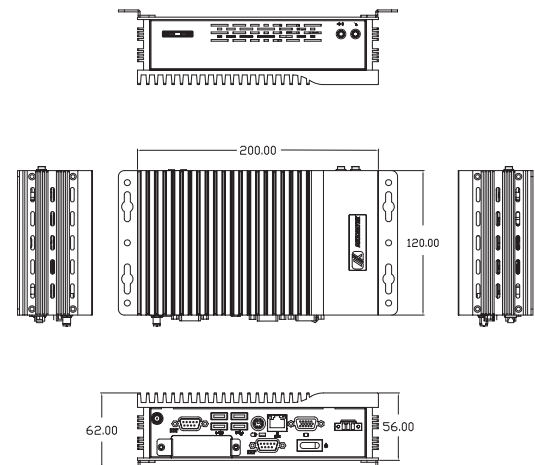
- Supports Intel® Atom™ processor Z510/520PT onboard
- Intel® SCH US15W PT chipset with I/O controller
- Supports wide operating temperature of -20°C-70°C
- Fanless operation design with full feature I/O
- High performance DDR2 SODIMM max. up to 1GB
- One 2.5" SATA HDD drive bay and CompactFlash™ slot
- Watchdog Timer

Ordering Information

Standard	
eBOX620-823-FL -1.33G	Fanless embedded system with Intel® Atom™ processor Z520PT 1.33 GHz
Optional	
2.5" SATA HDD	40GB-120GB
DDR2 SODIMM	256MB-2GB

*Specifications and certifications are limited to optional.

Dimensions



Embedded Systems

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Industrial Workstations

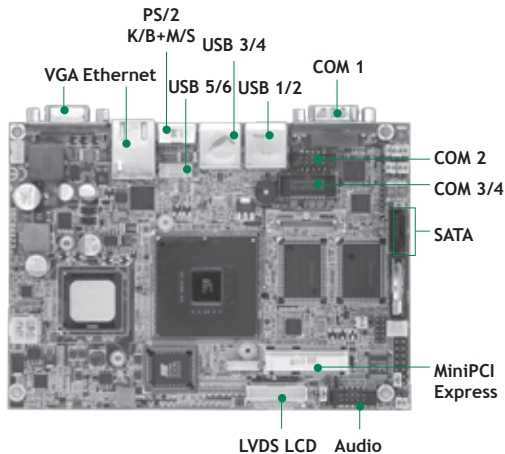
Backplanes

Power Supplies

Peripherals & Accessories

SBC84823

Intel® Atom™ Z510PT/Z520PT Embedded SBC with Intel® System Control Hub US15WPT Chipset, VGA/LVDS, DualView and MiniPCI Express (-40°C ~ +85°C)



Atom™ Z510/Z520PT
Intel® US15WPT
1 G.E.
LVDS/VGA
6 USB 2.0
MiniPCI Express
CompactFlash™
-40°C ~ +85°C

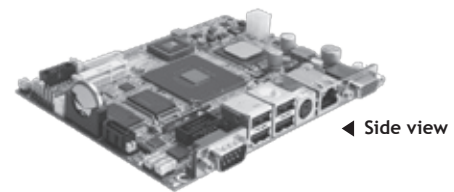
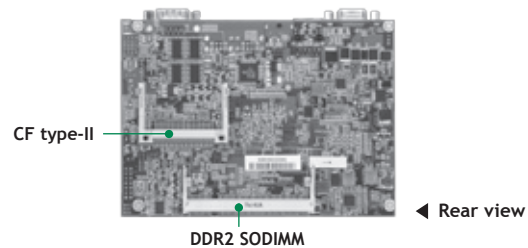


Features

- Intel® Atom™ processor Z510PT (1.1 GHz)/Z520PT (1.3 GHz) series with FSB 533 MHz
- Intel® system control hub US15WPT chipset
- Integrated graphics controller for VGA and LVDS
- 6 USB 2.0 ports
- 4 COM ports
- MiniPCI Express expansion
- Wide range voltage
- Supports wide temperature of -40°C ~ +85°C

System

CPU	Intel® Atom™ processor Z510PT (1.1 GHz)/Z520PT (1.3 GHz) series with FSB 533 MHz
System Memory	1 x 200-pin DDR2-400/533 SODIMM max. up to 2GB
Chipset	Intel® system control hub US15WPT
BIOS	Phoenix-Award with RP:/PXE LAN Boot ROM, Smart view and customer CMOS backup
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 0-255 sec.
Expansion Interface	1 x MiniPCI Express
Battery	Lithium 3V/196mAH
Size	146 x 102mm
Temperature	-40°C ~ +85°C (-40°F ~ +185°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing



I/O

MIO	1 x PS/2 keyboard 1 x PS/2 mouse 4 x RS-232 (COM1/2/3/4); with +5V/+12V powered
SATA	1 x SATA-300
Hardware Monitoring	Support CPU/System temperature, CPU/System voltage, and CPU/System Fan speed detection
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82574IT
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC888
USB	6 x USB 2.0 port; 2 ports on rear I/O; 4 ports via connector
TPM 1.2	N/A
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	3 channel IN and 5 channel OUT

Packing List

Quick installation guide, user's manual/utility CD, cable

Ordering Information

	Standard
SBC84823VGA-Z510PT-RC w/ET	3.5" SBC with Intel® Atom™ processor Z510PT 1.1 GHz, VGA/LVDS LCD, 10/100/1000Mbps, audio and W.T. (-40°C ~ +85°C)
SBC84823VGA-Z520PT-RC w/ET	3.5" SBC with Intel® Atom™ processor Z520PT 1.3 GHz, VGA/LVDS LCD, 10/100/1000Mbps, audio and W.T. (-40°C ~ +85°C)

Display

Chipset	Integrated in Intel® system control Hub US15W XL
Memory Size	Max. up to 256 MB sharing system memory
Resolution	* VGA: 1280 x 1024 * LVDS LCD: 18/24-bit single channel up to 1366 x 768
Output Interface	* VGA connector with D-sub 15-pin connector * LVDS LCD via JST connector

* W.T.: Wide Temperature