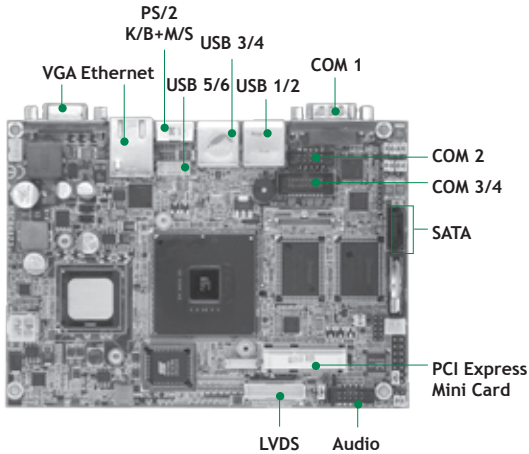
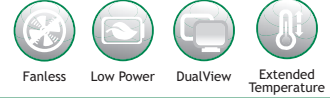


# SBC84823

Intel® Atom™ Z510PT/ Z520PT 3.5" Embedded SBC with Intel® System Control Hub US15WPT Chipset, VGA/LVDS, DualView and PCI Express Mini Card (-40°C ~ +85°C)



Intel® Atom™ Z510/520PT
Intel® US15WPT
1 G.E.
LVDS/VGA
6 USB 2.0
PCI Express Mini Card
CompactFlash™
-40°C ~ +85°C

## Features

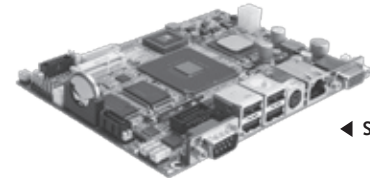
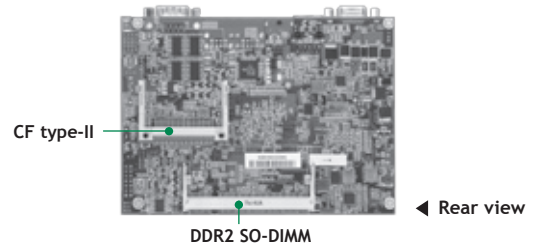
- Intel® Atom™ processor Z510PT (1.1 GHz)/ Z520PT (1.3 GHz) series with FSB 533 MHz
- Intel® system control hub US15WPT chipset
- Integrated graphics controller for VGA and LVDS
- 6 USB 2.0 ports
- 4 COM ports
- PCI Express Mini Card expansion (USB only)
- Supports wide range temperature of -40°C ~ +85°C

## System

CPU	Intel® Atom™ processor Z510PT 1.1 GHz and Z520PT 1.33 GHz onboard with FSB 400/533 MHz
System Memory	1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2 GB
Chipset	Intel® System Controller Hub US15WPT
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2 (USB only, PCIe x1 optional)
Battery	Lithium 3V/195 mAH
Power Input	2 x 2-pin connector +8V~+24V DC-in (+12V powered COM and LVDS inverter are supported with DC-in over +12V) AT Auto Power ON function supported
Power Requirements	*Intel® Atom™ Z520PT @1.33 GHz, 1GB DDR2 Max. RMS: +12V @ 736mA *Intel® Atom™ Z510PT @1.1 GHz, 1GB DDR2 Max. RMS: +12V @ 732mA
Size	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x PS/2 keyboard and mouse 4 x RS-232; with +5V/+12V powered
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
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 ALC886
USB	6 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	3 channels IN & 5 channels OUT



## Display

Chipset	Intel® GMA 500 graphics Core
Memory Size	Max. up to 256 MB
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single channel

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
59380000300E	2 x COM w/ bracket P=1.27 x 2.54 L=300mm	1
59384500100E	Audio cable w/ bracket P=2, 450mm	1
59382620000E	1 x COM cable w/ bracket P=2.0mm, L=300mm	1

## Ordering Information

Standard	
SBC84823VGA-Z510PT -RC w/WT (P/N: E384823100)	3.5" SBC with Intel® Atom™ processor Z510PT 1.1 GHz, VGA/LVDS, 10/100/1000Mbps, audio and W.T. (-40°C ~ +85°C)
SBC84823VGA-Z520PT -RC w/WT (P/N: E384823102)	3.5" SBC with Intel® Atom™ processor Z520PT 1.3 GHz, VGA/LVDS, 10/100/1000Mbps, audio and W.T. (-40°C ~ +85°C)

\* W.T.: Wide Temperature