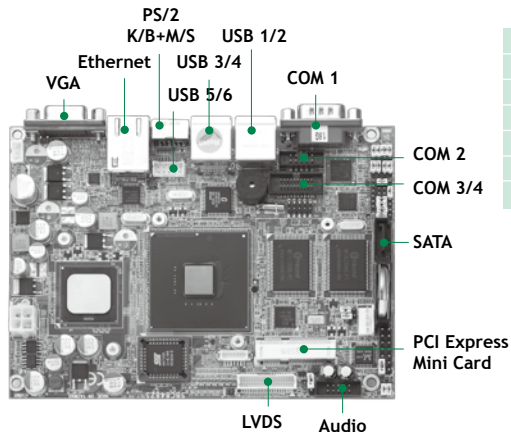


# SBC84825

Intel® Atom™ Z510P/ Z530P 3.5" Embedded SBC with Intel® System Controller Hub US15WP Chipset, VGA/LVDS, DualView and PCI Express Mini Card



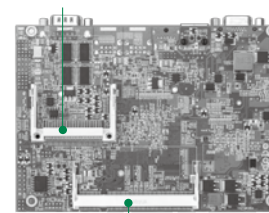
Atom™ Z510/530P  
Intel® US15WP  
1 G.E.  
RS-232/422/485  
6 USB 2.0  
PCI Express Mini Card  
CompactFlash™

## Features



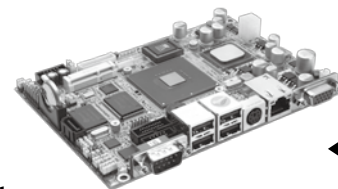
- Intel® Atom™ processor Z510P (1.1 GHz)/ Z530P (1.6 GHz) series with FSB 533 MHz
- Intel® System Controller Hub US15WP
- Integrated graphics controller for VGA and LVDS
- 1 SATA connector
- 6 USB 2.0 ports
- 4 COM ports
- PCI Express Mini Card expansion (USB only)

CF type-II



◀ Rear view

DDR2 SO-DIMM



◀ Side view

## System

CPU	Intel® Atom™ processor Z510P 1.1 GHz and Z530P 1.6 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 US15WP
BIOS	Phoenix-Award
Watchdog Timer	255 levels, 1~255 sec.
SSD	1 x CompactFlash™ type-II
Expansion Interface	1 x PCI Express Mini Card V1.2 (USB only, PCIe x1 optional)
Battery	Lithium 3V/220 mAH
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power ON function supported
Power Requirements	*Intel® Atom™ Z510P @1.1 GHz, 1GB DDR2 Max. RMS: +12V @ 691mA *Intel® Atom™ Z530P @1.6 GHz, 1GB DDR2 Max. RMS: +12V @ 675mA
Size	146 x 104 mm
Board Thickness	1.6 mm
Temperature	0°C - +60°C (32°F - 140°F), operation
Relative Humidity	10% - 95% relative humidity, non-condensing

## I/O

MIO	1 x PS/2 keyboard and mouse 3 x RS-232 (COM 2/3/4); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); 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 Realtek RTL8111DL
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC662
USB	6 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmable

SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Nano-ITX

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix

## 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	
SBC84825VGA-Z510P (P/N: E384825100)	3.5" SBC with Intel® Atom™ processor Z510P 1.1 GHz with VGA/LVDS LCD, 10/100/1000Mbps Ethernet, 4 COM ports and PCI Express Mini Card
SBC84825VGA-Z530P (P/N: E384825101)	3.5" SBC with Intel® Atom™ processor Z530P 1.6 GHz with VGA/LVDS LCD, 10/100/1000Mbps Ethernet, 4 COM ports and PCI Express Mini Card