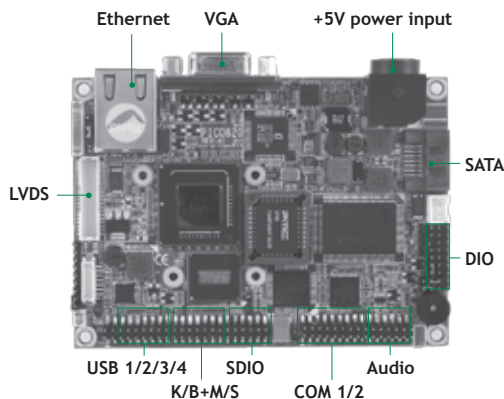


# PICO820

Intel® Atom™ Z510/ Z530 Pico-ITX SBC with VGA/LVDS LCD, SATA, LAN and SDIO



Atom™ Z500  
Intel® US15W  
4 USB 2.0  
LVDS/VGA  
HD Audio  
2 COM



## Features

- Ultra low power Intel® Atom™ processor Z510/ Z530
- Intel® System Controller Hub US15W
- Compact size: 100 x 72mm
- 2 COM and 4 USB 2.0 supported
- CRT/LVDS LCD supported
- 1 SATA-300 port
- 1 10/100/1000Mbps Ethernet
- 1 SDIO port
- +5V only DC-in supported
- Minimum 8 Watt power requirement

## System

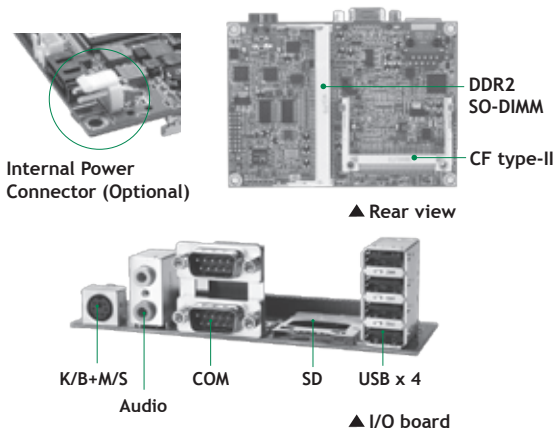
CPU	Intel® Atom™ processor Z510 1.1 GHz and Z530 1.6 GHz onboard with FSB 400/533 MHz
System Memory	1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2GB
Chipset	Intel® System Controller Hub US15W
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	N/A
Battery	Lithium 3V/225 mAh
Power Requirements	*Intel® Atom™ Z530 @1.6 GHz, 1GB DDR2 Max. RMS: +5V @ 1.625A *Intel® Atom™ Z510 @1.1 GHz, 1GB DDR2 Max. RMS: +5V @ 1.451A
Size	100 x 72 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 (through I/O pin-header) 2 x RS-232 (through I/O pin-header) 1 x SDIO (through I/O pin-header)
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 RTL8111B
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC888
USB	4 x USB 2.0
SMBus	System management bus for advanced monitoring/control interface
Digital I/O	4 channels IN and 4 channels OUT

## Display

Chipset	Intel® GMA 500 graphics Core
Memory Size	Max. up to 256MB
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, I/O board		
Cable		
Part Number	Description	Qty
E393238100	PICO820 I/O board	1
594PICO8200E	PICO820 DC power cable	1
59411208000E	SATA cable	1
59405300610E	PICO820 SATA power cable	1

## Ordering Information

Standard	
PICO820VGA-Z510 (P/N: E38H820100)	Pico-ITX SBC with Intel® Atom™ processor Z510 1.1 GHz, VGA/LVDS LCD, 10/100/1000Mbps Ethernet, SATA
PICO820VGA-Z530 (P/N: E38H820101)	Pico-ITX SBC with Intel® Atom™ processor Z530 1.6 GHz, VGA/LVDS LCD, 10/100/1000Mbps Ethernet, SATA
Optional	
PICO820VGA-Z510 90D PWR Connector (P/N: E38H820109)	Pico-ITX SBC with Intel® Atom™ processor Z510 1.1 GHz, VGA/LVDS LCD, 10/100/1000Mbps Ethernet, SATA, 90D power connector
PICO820VGA-Z530 90D PWR Connector (P/N: E38H820110)	Pico-ITX SBC with Intel® Atom™ processor Z530 1.6 GHz, VGA/LVDS LCD, 10/100/1000Mbps Ethernet, SATA, 90D power connector
5938H820010E	PICO820 COMx2 + audio cable
5938H820000E	PICO820 USBx4 + Mini DIN cable
5948H823000E	DC power cable (CN3)