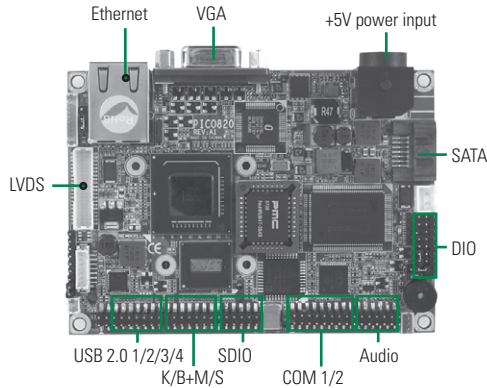


PICO820

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



Fanless Low Power

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 2 GB
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 Input	DC power jack connector +5V DC-in only AT Auto Power On function supported
Power Requirements	*Intel® Atom™ Z530 @1.6 GHz, 1 GB DDR2 Max. RMS: +5V @ 1.625A *Intel® Atom™ Z510 @ 1.1 GHz, 1 GB DDR2 Max. RMS: +5V @ 1.451A
Size	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	0°C ~ +60°C (32°F ~ 140°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

I/O

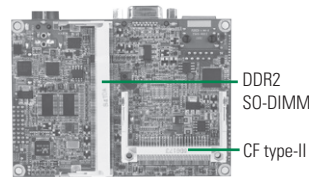
MIO	1 x PS/2 (through I/O pin-header) 2 x RS-232 (through I/O pin-header) 1 x SDIO (through I/O pin-header)
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC886
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

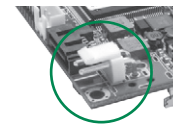
Chipset	Intel® GMA 500 graphics core
Memory Size	Max. up to 256 MB
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single channel

Features

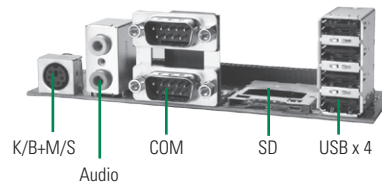
- Ultra low power Intel® Atom™ processor Z510/ Z530
- Compact size: 100 x 72 mm
- 2 COM and 4 USB 2.0 supported
- CRT/LVDS LCD supported
- 1 SATA-300 port
- One 10/100/1000Mbps Ethernet
- 1 SDIO port
- Minimum 8 Watt power requirement



▲ Rear view



▲ Internal power connector (Optional)



▲ I/O board

Packing List

Standard

Quick installation guide, user's manual/utility CD and accessories

Accessories

Part Number	Description	Qty
E393238100	AX93238 I/O board	1
594PIC08200E	DC power cable	1
59411208000E	SATA cable	1
59405300610E	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, 10/100/1000Mbps Ethernet, SATA-300 and HD audio
PICO820VGA-Z530 (P/N: E38H820101)	Pico-ITX SBC with Intel® Atom™ processor Z530 1.6 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, SATA-300 and HD audio

Optional

PICO820VGA-Z510 90D PWR Connector	Pico-ITX SBC with Intel® Atom™ processor Z510 1.1 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, SATA-300, 90D power connector and HD audio
PICO820VGA-Z530 90D PWR Connector	Pico-ITX SBC with Intel® Atom™ processor Z530 1.6 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, SATA-300, 90D power connector and HD audio
5938H820010E	COM x 2 + audio cable
5938H820000E	USB x 4 + Mini DIN cable
5948H823000E	DC power cable (for internal power connector)

* All specifications and photos are subject to change without notice.

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[PICO820VGA-1.1G/IO](#) [PICO820VGA-1.6G/IO](#)