

Features

- Intel® D510 1.66 GHz Dual Core Processor Onboard
- Low Power Consumption
- Intel® ICH8M I/O Controller Hub
- Up to 2 GB DDR2 SO-DIMM System Memory
- Intel® GMA 3150 Graphics Gen3.5+GFX Render
- Core @ 400MHz Display Memory
- Dual Display: LVDS, VGA
- 18bit Single Channel LVDS
- TPM 1.2 Supported
- 1 Mini PCIe, Compact Flash
- 4 USB, 2 COM, GPIO
- 1 Gigabit LAN
- HD Audio
- 12V DC-in Power

Specification

System

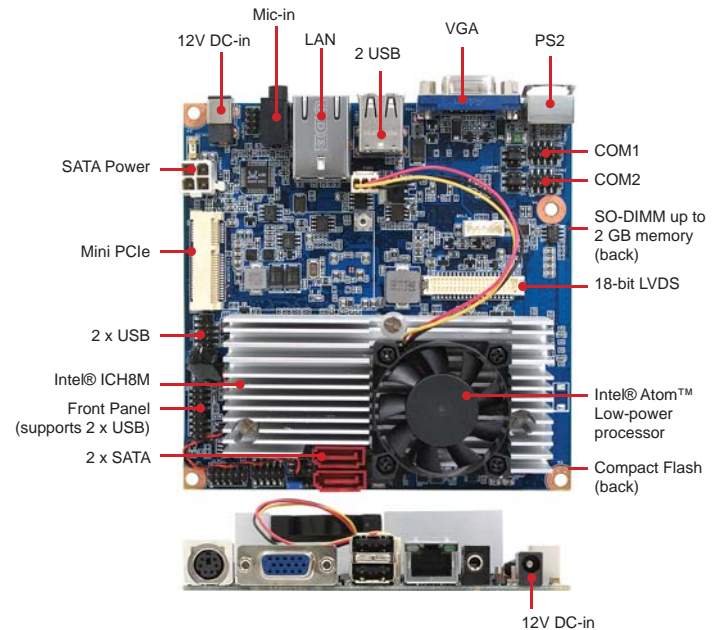
CPU	Onboard Intel® Atom™ 1.66 GHz Processor
Chipsets	Intel® ICH8M
System Memory	One 200-pin SODIMM socket supports up to 2 GB DDR2 800 MHz SDRAM
BIOS	AMI/Legacy 16 Mb SPI BIOS
Expansion Interface	1 x Mini PCI Express 1 x Compact Flash Socket
TPM	TPM 1.2 by Infineon SLB9635 (optional)
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats

Display

Graphics Engine	Intel® Gen3.5+GFX Render Core @ 400MHz
Resolutions	LVDS: up to 1280 x 800 Ext Display: SXGA 1400 x 1050 @ 60 Hz maximum resolution
Dual Display	VGA, LVDS

Onboard I/O Headers

SATA	2 x SATAII
USB	1 x USB Connector supports 2 USB Ports
COM	2 x COM RS-232 Ports w/ Power
Audio	1 x Mic-in & Line-in
Front Panel	1 x Front Panel Header supports 2 USB Ports
GPIO	1 x Digital I/O
LVDS	1 x 18-bit LVDS
Inverter	1 x Inverter



Back I/O Panel

MIO	1 x PS/2 Keyboard+Mouse
VGA	1 x VGA Port
LAN	1 x LAN RJ45 Port
USB	2 x USB 2.0 Ports
Audio	1 x Line-out
DC-in	1 x 12V DC-in

Audio

HD Audio Codec	Realtek® ALC888 8 Channel HD Audio
Audio Interface	Line-out, Mic-in, Line-in

Ethernet

LAN 1	Realtek® RTL 8111C Gigabit LAN
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Mechanical and Environment

Power Type	12V DC Power
Operating Temperature	0~60°C (32~140°F)
Operating Humidity	0%~90% relative humidity, non-condensing
Form Factor	Nano ITX
Dimensions	4.72" (L) x 4.72" (W)
Weight	0.4 lbs

Ordering Information

* OEM products are designed for OEMs with ongoing and consistent order requirements and subject to minimum order quantities. Evaluation units are available without such restrictions. BCM has multiple stocking distributors that may be able to work with OEMs to streamline product deliveries. Please contact BCM Sales for more information on any OEM products you may be interested in.

NX510D

Intel Atom 1.66 GHz Dual Core processor onboard, up to 2 GB system memory, LVDS, VGA, Gbit LAN, 2 SATA, 2 COM, 4 USB, Mini PCIe, CF, 12V DC-in

* All product specifications are subject to change without notice. Last update: 09/09/2010