



Product Brief

- Intel Atom D2550 Dual-Core 1.86GHz (10W) Processor
- Intel ICH10R Express Chipset
- Up to 4GB single channel SO-DIMM
- 5 SATA2 3.0Gbps Ports support RAID 0, 1, 5, 10
- 2 SATA3 6.0Gbps Ports control by Marvell SE9172
- Support eSATA
- Dual Intel 82574L Gigabit LAN ports (with Teaming function)
- 4 x USB 3.0 ports (2 rear ports +2 via headers), 11 x USB 2.0 ports (6 rear ports + 4 via headers + 1 Type A connector)
- 1 (x1) PCI-E (in x16) slot
- Integrated Intel GMA3600 Graphics

Specifications

Physical status	Form Factor	- Mini ITX
	Dimensions	- 6.7" x 6.7" (17.02 cm x17.02 cm)
Processor System	CPU	- Intel Dual-Core Atom D2550 Processor
	Socket	- 1x micro-FCBGA11
	Power phase	- 1+1 Power Phase Design
	Chipset	- Intel ICH10R
System Memory	Capacity	- 2 x SO-DIMM slots - Support up to 4GB
	Type	- Single Channel DDR3 memory technology - Supports DDR3 1066 DIMM
	Voltage	- 1.5V
Expansion Slot	PCIe x 16	- 1 slot (x1)
	mini PCIE	- NA* (Optional, please send your inquiry to sales)
Storage	SATA controller	- Intel ICH10R : 5 x SATA2 3.0 Gb/s , support RAID 0, 1, 5, 10 (Default:5 SATA ports, w/eSATA ; Option: 6 SATA ports. wo/eSATA)
	Additional SATA controller	- Marvell SE9172: 2 x SATA3 6.0 Gb/s
Ethernet	Interface	- Gigabit LAN 10/100/1000 Mb/s
	LAN Controller	- 2 x Intel 82574L - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE
Graphics	Controller	- Integrated (GMA3600)
	Output	- Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports HDMI with max. resolution up to 1920x1200 @ 60Hz
Rear Panel I/O	PS/2 KB/mouse	- 1
	VGA port	- D-sub x 1 , HDMI x1
	eSATA	- 1 *(If without eSATA, the number of SATA2 ports will change from 5 to 6)
	USB 2.0 port	- 6
	USB 3.0 port	- 2
	Lan port	- 2 x RJ45 Gigabit Ethernet LAN ports - LAN Ports with LED (ACT/LINK LED and SPEED LED)
	COM port	- 1
	Type A USB 2.0 port	- 1
Internal connector	USB 2.0 header	- 2 (Each support 2 USB 2.0)
	USB 3.0 header	- 1 (Each support 2 USB 3.0)
	Auxiliary panel header	- 1 (include chassis intrusion , location button & LED , front LAN LED)
	Front panel	- 1
	Speaker	- 1 (4 pin)
	TPM-S	- 1
	Fan header	- 3 (1 x 4-pin , 2 x 3-pin)
	ATX power	- 1 (24-pin)
Onboard LED	Standby PWR LED 5vsb	- 1
	System BIOS	BIOS type - 16Mb SPI Flash ROM - AMI UEFI BIOS
Hardware Monitor	Temperature	- CPU Temperature Sensing - System Temperature Sensing
	Fan	- CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU Fan Multi-Speed Control
	Voltage	- Voltage Monitoring: +12V, +5V, +3V, CPU Vcore, memory
	Support OS	OS - Microsoft® Windows® 7 / Home Server 2011 / Storage Server 2008 R2 / Server 2008 R2 and Fedora (64bit OS* no graphic driver support, need to use inbox graphic driver)
Features	Unique Features	- ASRock Instant Flash - ASRock Crashless BIOS - Boot Failure Guard (B.F.G.)

Note: * 64bit OS: Microsoft® Windows® 7(x64) / Home Server 2011 / Storage Server 2008 R2 / Server 2008 R2

Board Diagram

