



Key Features

1. Intel® Atom™ N2800 (6.5W)
2. Intel® NM10 Express Chipset
3. Up to 4GB 1066MHz DDR3 Non-ECC SO-DIMM in 2 sockets
4. 1x Mini-PCIe with mSATA
5. HDMI, Display port, LVDS and VGA
6. Dual Intel 82574L GbE LAN ports
7. 2x USB 3.0 and 6x USB 2.0 ports
8. 4x COM ports
9. DOM power connector
10. 12V DC or ATX power source
11. Operating Temperature: 0°C - 60°C
12. 4-pin 12V DC power input or 24-pin ATX power input

Specifications

Physical Stats

Form Factor	• Mini-ITX
Dimensions	• 6.7" x 6.7" (17cm x 17cm)

Processor/Cache

CPU	• Socket FCBGA559
	• Intel® Atom™ N2800 (2 Core) processors support
	• 1MB, 1.8GHz, 2C/4T, HT, 64-bit, 6.5W

System Memory

Memory Capacity	• 2x 204-pin SO-DIMM sockets
	• Supports up to 4GB of non-ECC DDR3 1066MHz (Single Channel)
	• Some 1333MHz memory can be used, but memory capacity will operate at 1066MHz

Memory Type	• 1066MHz DDR3 SO-DIMM, 204-pin gold-plated DIMMs
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Expansion Slots

PCI	• 1x 32-bit PCI slot (5.0V)
PCI-E	• 1x Mini-PCIe with mSATA

System BIOS

BIOS Type	• 64Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	• Plug and Play (PnP)
	• DMI 2.3
	• PCI 2.3
	• ACPI 1.0 / 2.0
	• USB Keyboard support
	• RTC (Real time Clock) Wakeup
	• 3TB HDD Support

DIMM Sizes	•	2GB, 1GB
Memory Voltage	•	1.5 V

On-Board Devices

Chipset	•	Intel® NM10 Express Chipset
SATA	•	SATA 2.0 (3Gb/s)
Network Controllers	•	Intel® 82574L dual-port Gigabit Ethernet LAN ports
	•	Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	•	Realtek ALC888S-VD2 HD Audio
Graphics	•	Integrated Intel® GMA 3650
USB 3.0	•	Renesas uPD720202

Input / Output

Serial ATA	•	2x SATA2 ports
LAN	•	2x RJ45 Gigabit Ethernet LAN ports
USB	•	2x USB 3.0 ports (2 rear)
	•	6x USB 2.0 ports (2 rear)
DOM (Disk on Module)	•	DOM power connector support
Video Output	•	HDMI, Display Port, VGA, LVDS
Serial Port / Headers	•	4x COM ports in headers (1 w/RS422/485)
Others	•	Audio header
	•	TPM 1.2 header

Power

Power Configurations	•	ACPI / ACPM Power Management
	•	Main Switch Override Mechanism
	•	Keyboard Wakeup from Soft-Off
	•	Power-on mode for AC power recovery

PC Health Monitoring

FAN	•	One fan with tachometer status monitoring
	•	Status monitor for speed control
	•	Status monitor for on/off control
	•	Low noise fan speed control
	•	Pulse Width Modulated (PWM) fan connectors
Temperature	•	Monitoring for CPU and chassis environment
	•	CPU thermal trip support
LED	•	CPU / System Overheat LED
	•	Standby alert LED

Operating Environment

Operating Temperature Range	•	0°C ~ 60°C (32°F ~ 140°F)
Non-Operating Temperature Range	•	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Relative Humidity	•	10% ~ 85% (non-condensing)

Range

Non-Operating Relative Humidity Range • 10% ~ 95% (non-condensing)
