EC9-1818V2NA

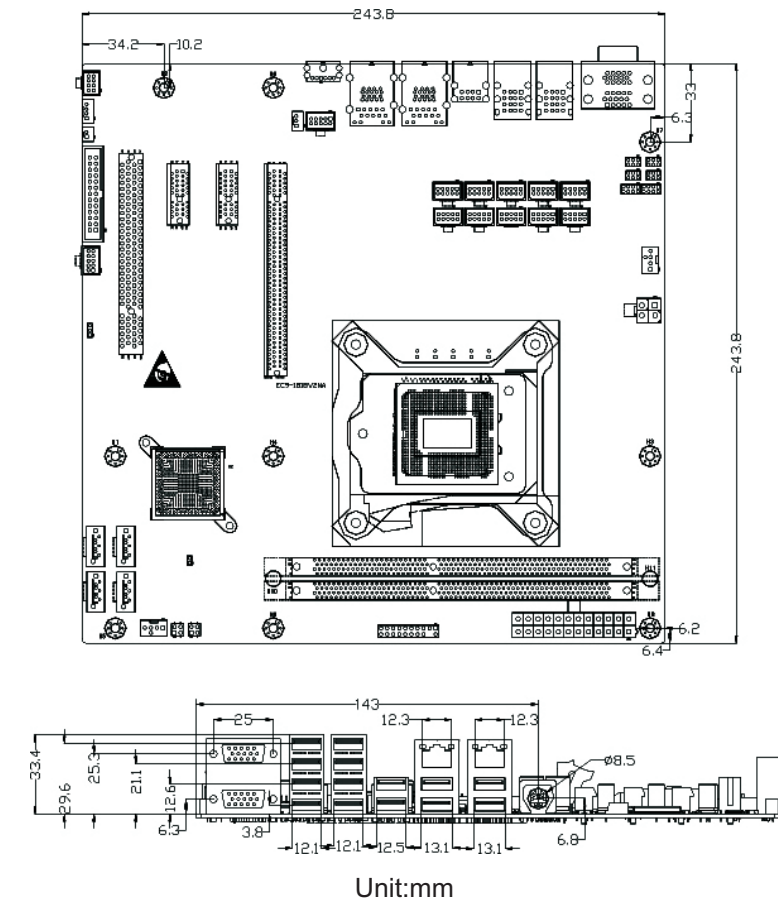**Embedded ATX SBC with 2VGA/2LAN/Audio/10COM/14USB**
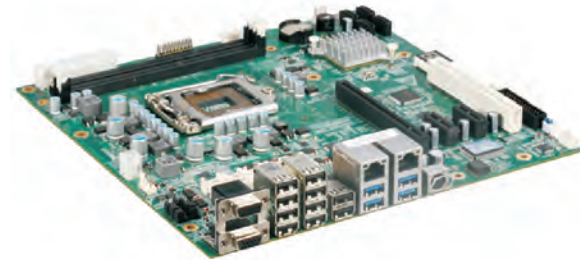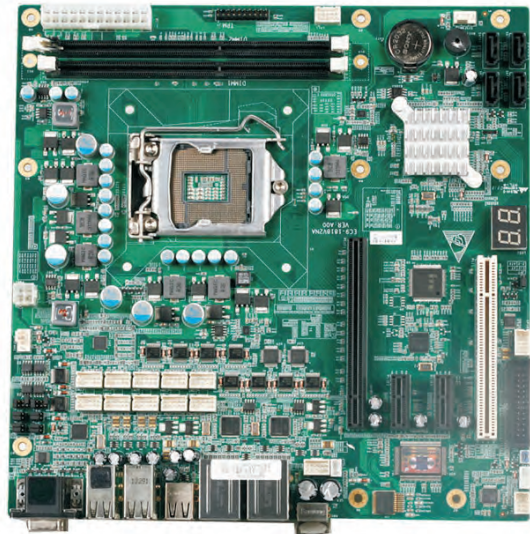
Features

- High reliability with wafer style connector
- Supports Ivy Bridge/Sandy Bridge CPU
- Supports up to 16GB memory
- Supports VGA + VGA dual display
- Supports 14 x USB, 10 x COM, 4 x SATA, 2 x GbE, 1 x LPT, 8-bit GPIO
- Supports 1 x PCI-E x16, 2 x PCI-E x1, 1 x PCI expansion slot

Specifications

System

Processor	Supports LGA1155 package Intel® Core™ Ivy Bridge/Sandy Bridge Quad-core/dual-core/single-core CPUs, such as Intel® Core™ i7-3770, Core™ i5-2500 and Core™ i3-2120 CPU models
Chipset	Intel®H61
Memory	Supports 2 x 240-Pin DDR3 DIMM slot, supports Un-buffered non-ECC memory, up to 16GB
Hardware Monitor	Monitors operating voltage, the temperature of CPU and fan speed
Watchdog Timer	1~255 sec./min. timer system reset or interrupt, setup by software
Expansion Interface	1 x PCI-E x16, 2 x PCI-E x1, 1 x PCI

Storage

Serial ATA	4 x SATA2.0 interface, AHCI mode supports hot swap
IDE/CF	N/A
RAID	Not supported

I/O Interface

USB	4 x USB3.0, 10 x USB2.0
Serial Port	10 x COM (COM1,2 support RS232/422/RS485 mode selection and COM1 wake-up function)
Parallel Port	1 x LPT
PS/2	1 x PS/2 keyboard/mouse port
GPIO	8bit GPO
Audio	Adopts ALC892-GR HD audio chip, supports MIC-in, LINE-in and LINE-out
Others	1 x TPM port, supporting TPM/TCM module

Display

Chipset	Intel® H61 Integrated Graphics controller, and NXP PTN3392BS DP2VGA
Memory	N/A
Resolution	VGA1: up to 2048 x 1536@75Hz VGA2: up to 1920 x 1200@75Hz
Dual Display	VGA + VGA

Ethernet

Chipset	2 x Intel®WG82583V
Speed	10/100/1000Mbps
Connector	2 x RJ45

Mechanical and Environmental

Dimensions	243.8mm (L) x 243.8mm (W) x 80mm (H)
Operating Temperature	-10℃~60℃
Storage Temperature	-20℃~60℃
Operating Humidity	5%-95%, non-condensing

Power

Power Supply	ATX power supply
Power Consumption	The typical consumption is based on the following idle status values: CPU: Sandy Bridge/Core i7-2600/3.40GHz/8M/4C&8T/5GT/s/SR00B/D2/Embedded/95W/LGA1155(106a7); Memory: DDR3/2G/1333/Kingston/240P/KVR1333D3S8N9/single-side 8-chip; Operating system: Windows 7 Ultimate 32bit +5V@0.31A; +5%/-3%; +3.3V@1.08A; +5%/-3%; +12V@0.53A; +5%/-3%;

Operating System

Windows OS	Windows 7/Windows XP
Embedded OS	Linux

Dimensions

Unit:mm

Packing List

1 x I/O bracket/EC9-1818V2NA/RoHS(P/N: 1394-003811)

3 x COM cable, dual 2x5pin 2.0-pitch wafer to DB9 with bracket/L=300mm/RoHS(P/N: 2360-034771)

2 x SATA cable, SATA-7pin female/L=300mm/RoHS(P/N: 2360-018011)

1 x LPT cable, 2x13pin to LPT without bracket/L=300mm/RoHS(P/N: 2360-005051)

1 x Audio cable, 2x5pin 2.0-pitch wafer with bracket/L=100/RoHS(P/N: 2360-035201)

1 x PS/2 cable, minDIN Y-cable for keyboard and mouse/L=250/RoHS(P/N: 2360-005031)

1 x Quick Installation Guide/EC9-1818V2NA series//RoHS(PN: 2412-005051)

1 x Driver DVD/EC9-1818V2NA/RoHS(P/N: 2192-019501)

Ordering Information

Part Number	Model Number	Description
0030-019881	EC9-1818V2NA	Motherboard/RoHS: with PCI
1030-017571	EC9-1818V2NA-2	Motherboard(PCBA)/RoHS: without PCI