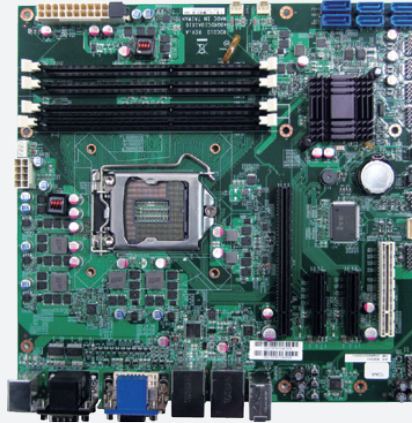


# NEX 880

Micro ATX, support 2nd Generation Intel® Core™ Desktop processors  
with Dual Display/1 x PCIe8/1 x PCIe4/2 x PCIe1/2 x GbE



## Main Features

- Support 2nd generation Intel® Core™ desktop processors
- 4 x DDR3 DIMM Socket up to 32 GB
- VGA + DVI dual displays
- 2 x Intel® Gigabit Ethernet
- Support Intel® AMT 7.0
- 1 x PCIe16(with PCIe8 signals), 1 x PCIe8(with PCIe1 signals), 1 x PCIe4(with PCIe4 signals) slot, 1 x PCIe4 (with PCIe1 signals) slot
- Support SATA 3.0, 2 x RS232

## Product Overview

NEX 880 is an industrial motherboard with Micro ATX form factor, which Support 2nd generation Intel® Core™ Desktop processors with Hyper-Threading technology.

The 2nd generation Intel® Core™ Desktop processors support dual channel non-ECC DDR3 1066/1333 MHz memory in four DIMM slots and integrated HD graphics controller. The Q67 PCH manages SATA 3.0 ports and USB2.0 ports. Furthermore, it supports other versatile I/O ports such as two serial ports, ten USB ports, and two Intel® PCI Express Gigabit LAN ports. It offers a great solution for advanced industrial application that requires superb display and processing performance.

## Specifications

### CPU Support

- LGA1155, 2nd generation Intel® Core™ Desktop processors

### Main Memory

- 4 x 240-pin DIMM, for up to 32GB dual channel non-ECC un-buffered DIMM 1066/1333 SDRAM

### Chipset

- Intel® Q67 Platform Controller Hub

### BIOS

- AMI BIOS
- Plug and play support

### On-board LAN

- 1 x Intel® 82579LM PHY for AMT 7.0
- 1 x Intel® 82583 PCI Express Gigabit Ethernet
- Support boot from LAN (PXE)
- 2 x RJ45 with LED

### Display

- 2nd generation Intel® Core™ Desktop processors Integrated HD graphics
- 1 x VGA
- 1 x DVI-D

### Expansion

- 1 x PCIe16 (with PCIe8 signals) slot

- 1 x PCIe8 (with PCIe1 signals) slot
- 1 x PCIe4 (with PCIe1 signals) slot
- 1 x PCIe4 (with PCIe4 signals) slot

### Edge I/O Interfaces

- 1 x dual stack Mini DIN 6-pin connector for PS/2 KB/MS
- 1 x dual stack DB9 male connector for COM1 & COM2
- 1 x DVI + DB15 female connector VGA
- 2 x RJ45 with dual stack USB connectors
- Line-in/Line-out/MIC phone jack

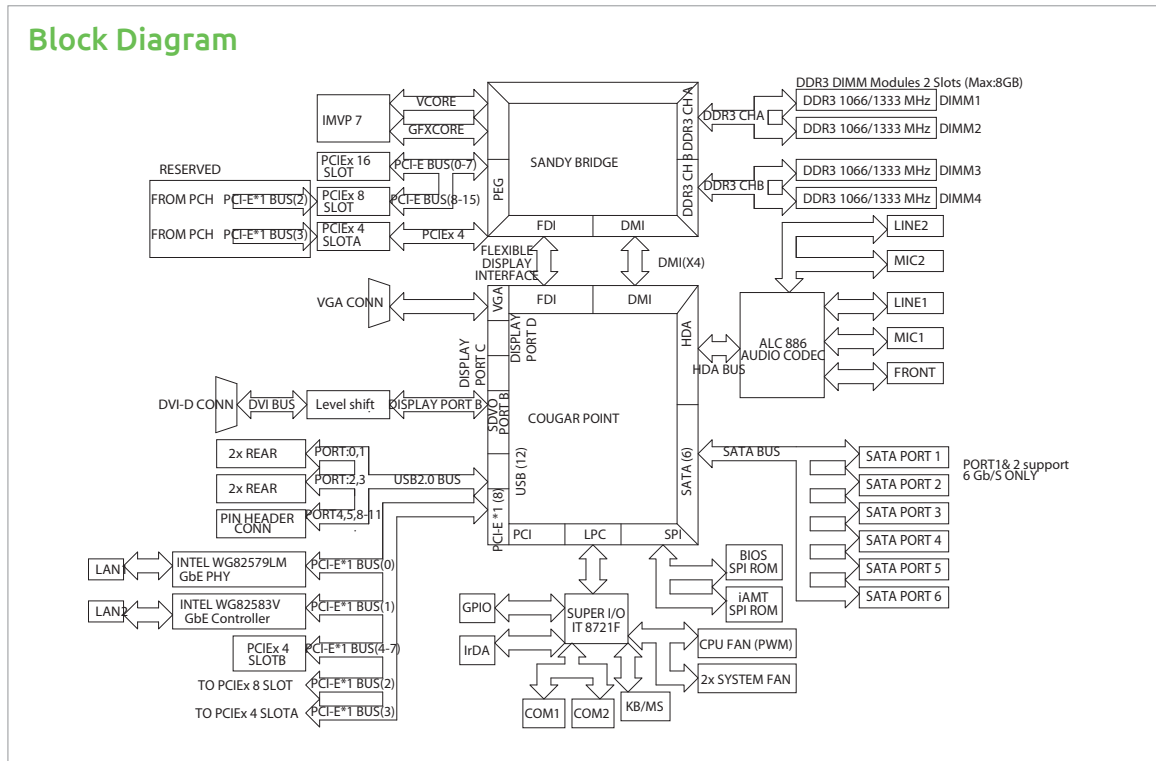
### I/O Interface

- USB2.0: 10 ports (6 onboard pin header, 4 with type A connector for external)
- Serial port: 2 port, with 2 x 5pin headers (COM 1 and COM 2)
- SATA HDD: 6 ports, port 1, 2 support SATA 3.0, port 3, 4, 5, 6 support SATA 2.0
- Support RAID 0/1/5/10 and Intel® Matrix Storage
- IrDA: on board pin header
- GPIO: Supports 4 sets general purpose I/O each with TTL level (5V) interface
- On-board buzzer x1
- Power LED/Power On/Reset/HDD LED pin header
- 1 x 4-pin fan connector (for CPU); 2 x 3-pin fan connectors (for System)
- On-chip RTC with battery backup

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## Block Diagram



- 1 x External Li-Ion battery

### System Monitor

- 4 voltages (+3.3V, +5V, +12V, Vcore)
- 2 temperatures (For CPU and System)
- 3 fan speed monitors (1 for CPU and 2 for system fan)

### Power Input

- Support ATX power supplies
- Standard ATX 24-pin connector for +12V/+5V/+3.3V/+5Vsb/-12V
- ATX 8-pin connector for +12V

### Dimensions

- Micro ATX
- Dimension: 244mm (L) x 244mm (W)

### Environment

- Board level operating temperatures: 0°C to 60°C
- Storage temperature: -20°C to 85°C
- Relative humidity: 10% to 90%, (Non-condensing)

### Certifications

- CE approval
- FCC Class A

## Ordering Information

### ♦ NEX 880 (P/N : 10G00088000X0)

Micro ATX, LGA1155, 2nd generation Intel® Core™ Desktop processors, Q67 DDR3 DIMM x4, VGA, DVI-D, 2 x GbE, PCIe x8/PCIe x4/2 x PCIe x1, 2 x RS232

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660