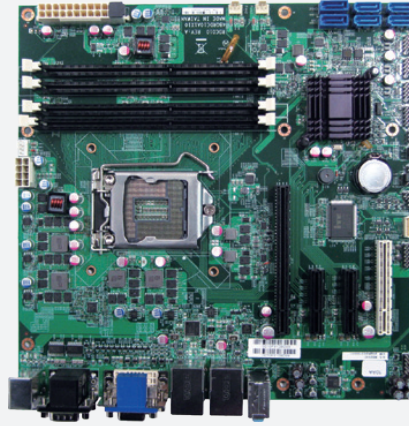


NEX 890

Micro ATX, Support 2nd Generation Intel® Core™ Workstation Processors with Dual Display/2 x PCIe8/2 x PCIe4/2 x GbE



Main Features

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

Product Overview

NEX 890 is an industrial motherboard with Micro ATX form factor, which Support 2nd generation Intel® Core™ Workstation processors with Hyper-Threading technology.

The 2nd generation Intel® Core™ Workstation processors support dual channel ECC DDR3 1066/1333 MHz memory in four DIMM slots and integrated HD graphics controller. The C206 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™ Workstation processors

Main Memory

- 4 x 240-pin DIMM, for up to 32GB dual channel ECC DDR3 1066/1333 SDRAM

Chipset

- Intel® C206 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 slot
- 2 x PCIe4 slots

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

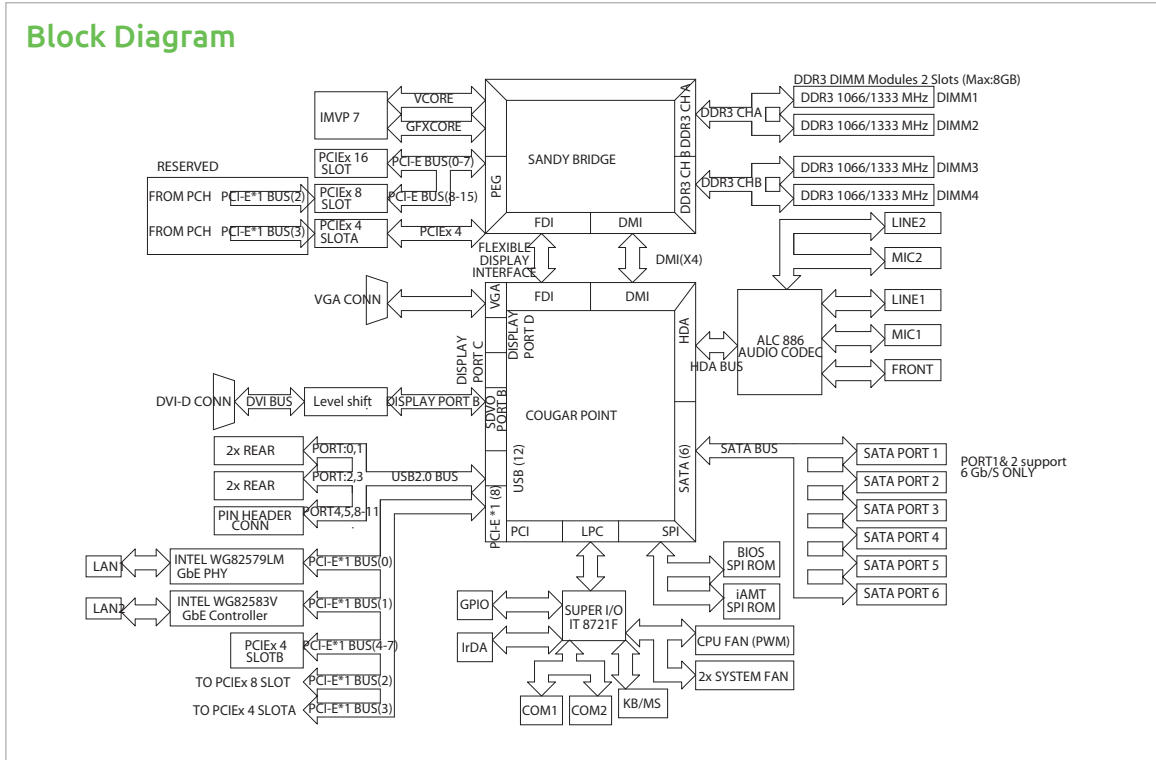
I/O Interface

- USB2.0: 10 ports (6 on board 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 (5 V) 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
- 1 x External Li-Ion battery

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Block Diagram



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 890 (P/N : 10G00089000X0)**

Micro ATX, LGA1155, 2nd generation Intel® Core™ Workstation processors, C206, 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.

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