

Main Features

- Support Socket LGA 1155 for 3rd/ 2nd Generation Intel® Core™ i7/i5/i3, Celeron Processors
- 4x DDR3 DIMM Socket up to 32 GB
- Support DisplayPort/ HDMI/ VGA dual displays
- 2x Intel® GbE, 4x SATA3.0/ 2.0, mSATA, CFast, 12x USB3.0/ 2.0, 6x COM, 8x GPIO
- 1x PCle x16, 1x PCle x4, 1x PCle x1, 1x mPCle, 4x PCl (v2.3)
- Support AT/ ATX mode by ATX Power Input

Product Overview

NEX 980 is an industrial motherboard with Standard ATX form factor, which support 3rd and 2nd generation Intel® Core™ i7/i5/i3 Celeron® processors. NEX 980 support dual channel DDR3 2133/1600/1333/1066MHz memory in four long DIMMs up to 32GB system memory and PClex16 (3.0/ 2.0 by CPU)

The Q77 PCH support multiple displays by three DDI (digital display interfaces) by HDMI/ DP ports as well as legacy VGA. Intel Q77 PCH manages up to 2x SATA 3.0/ 2x SATA 2.0 with software RAID 0/ 1/ 5/ 10 supported and performs up to 12x USB (4x USB3.0/ 8x USB2.0) ports. NEX 980 support PCIe x4, PCIe x1, mPCIe, legacy 4x PCI slots, dual Intel GbE ports and up to 6x COM incl. 2x RS232/422/485. NEX 980 could be integrated into 1U/ 2U/ 4U rack mounted chassis or Desktop Towers as completed system solution for widely industrial applications in the new era of digital infrastructure with NEXCOM.

Specifications

CPU Support

 Socket LGA1155, 3rd or 2nd Generation Intel® Core™ i7/ i5/ i3, Celeron® processors

Main Memory

 4x 240-pin dual channel long DIMMs support DDR3 1066/1333/1600/2133Mhz up to 32GB system memory

Chipset

• Intel® Q77 Platform Controller Hub

RIOS

- AMI BIOS UEFI
- Plug and play support

On-board LAN

- 1x Intel® 82579V/ LM PHY for AMT 8.0
- 1x Intel® 82583V PCI Express Gigabit Ethernet
- Support boot from LAN (PXE)
- 2x RJ45 with LEDs

Display

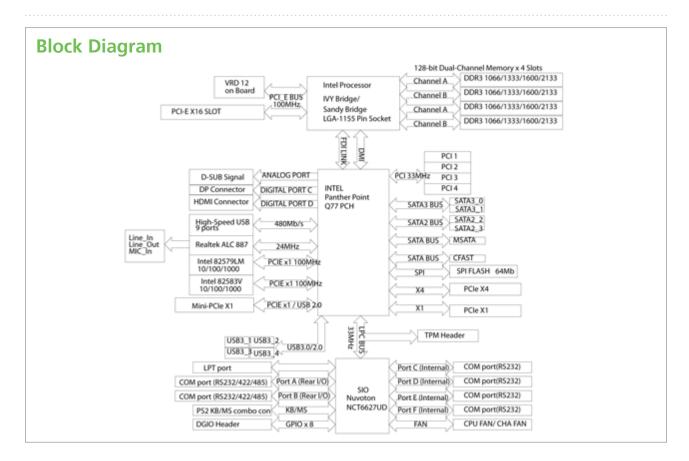
- 3rd or 2nd generation Intel[®] Core™ socket LGA1155 processors Integrated HD graphics
- 1x HDMI
- 1x DisplayPort
- 1x VGA

Expansion

- 1x PCle x16 (Gen. 3.0/ 2.0 by CPU)
- 1x PCle x4
- 1x PCle x1
- 4x PCI (v2.3)

Edge I/O Interfaces

- 1x Combo for PS2 KB/MS
- 2x stack DB9 for COM1 & COM2
- 1x DisplayPort
- 1x HDMI with dual stack USB 2.0 (black)
- 1x VGA
- 2x RJ45 with dual stack USB 3.0 (blue) and dual stack USB 2.0 (black) connectors
- Line-In/ Line-Out/ MIC phone jack



I/O Interface

- USB 3.0: 4 ports (2x USB3.0 on edge I/O, 2x internal box-header)
- USB 2.0: 8 ports (4x USB2.0 on edge I/O, 4x internal box-header)
- Serial: 6 ports (default 2x RS232 pre-selected RS422/485 in BIOS, 4x RS232 by internal pins-header)
- SATA HDD: 4 ports, port 0, 1 support SATA 3.0, port 2, 3 support SATA 2.0, dual SATA Power by 2 x 4xpins
- Support Software RAID 0/ 1/ 5/ 10 and Intel® Matrix Storage
- GPIO: Supports 4x GPI and 4x GPO with TTL level (5V or 12V by Jumper)

Interface:

- Onboard buzzer x1
- 9x pins system header for Power LED/ Power On/ Reset/ HDD LED
- 1x 4-pin fan connector (for CPU); 1x 3-pin fan connectors (for CPU or System)
- On-chip RTC with battery/ CR2032 backup holder onboard

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 Chassis Fan/ System)

Power Input

- Support AT/ ATX mode
- Standard ATX 24-pin connector for +12V/ +5V/ +3.3V/ +5VSB/ -12V
- ATX 4-pin connector for +12V

Dimensions

- Micro ATX
- Dimension: Lx W, 305mm x 244mm; 12"x 9.6"

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

- Meet CE
- Meet FCC

Ordering Information

• NEX 980-10PBK (P/N: 10G00098001X0)

Bulk-Packed 10 x pcs ATX, LGA1155 of 3rd/ 2nd Generation Intel® Core™ i7/ i5/ i3, Celeron processors, Q77 with 4x DDR3/ DIMM , HDMI/ DP/ VGA, PCIe x16/ PCIe x4/ PCIe x1/ 4PCI/ mPCIe, 2x SATA3.0/ 2x SATA 2.0, 4x USB3.0/ 8x USB 2.0, 2x GbE, 6x COM, mSATA, CFast and ATX Power Input