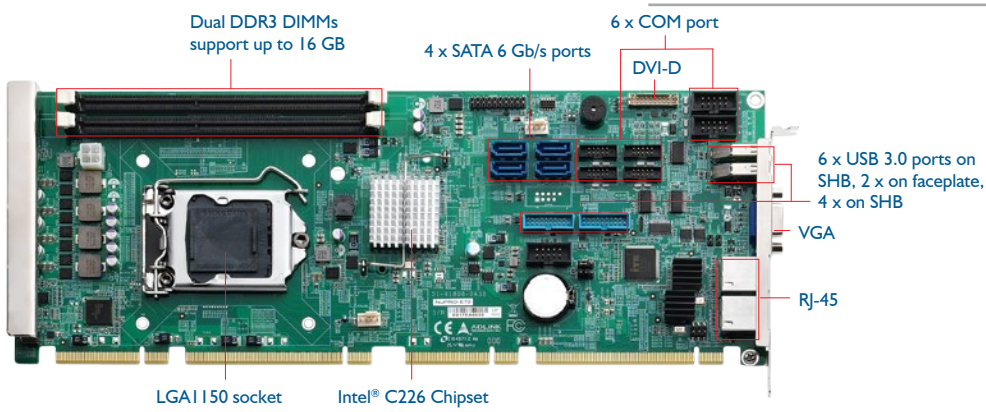
NuPRO-E72

PICMG® 1.3 Full-Size LGA1150 Intel® Xeon® E3-1200 v3 Processor-based SHB





NuPRO-E72

Features

- 4th Gen Intel® Xeon® E3-1200 v3, Core™ i3, Pentium® and Celeron® processor
- Intel® C226 Express chipset supporting PCI Express 3.0
- Intel® Rapid Storage Technology, supports RAID 0/1/5/1+0
- 6x COM ports (including 1x RS-232/422/485)
- Supports USB 3.0 with 5 Gb/s data transfer rate
- Supports Serial ATA with 6 Gb/s data transfer rate on SHB

Specifications

Processor & System	
CPU	Intel® Xeon® E3-1275 v3, 3.5GHz, 8M Cache, 22nm, 84W TDP, LGA1150 (4C)
	Intel® Xeon® E3-1225 v3, 3.2GHz, 8M Cache, 22nm, 84W TDP, LGA1150 (4C)
	Intel® Xeon® E3-1268L v3, 2.3GHz, 8M Cache, 22nm, 45W TDP, LGA1150 (4C)
	Intel® Core™ i3-4330, 3.5 GHz, 3M Cache, 22nm, 54W TDP, LGA1150 (2C)
	Intel® Pentium® G3420, 3.2 GHz, 3M Cache, 22nm, 54W TDP, LGA1150 (2C)
	Intel® Celeron® G1820, 2.7GHz, 2M Cache, 22nm, 55W TDP, LGA1150 (2C)
Chipset	Intel® C226 Express chipse
Memory	2x 240-pin DIMM sockets
	Dual-channel DDR3 1600 MHz, up to 16 GB with ECC support
BIOS	AMI® BIOS, 2x64 Mbit SPI Flash memory
TPM	Infineon SLB 9635 TT 1.2
Watchdog Timer	1-255 sec or 1-255 min software programmable and can generate system reset
Hardware Monitor	CPU/System temperature, fan speed and onboard DC voltages
Operation Systems	Microsoft® Windows® 7 SP1 64-bit
	Microsoft® Windows® 8.1 64-bit
	Microsoft® Windows® Server 2008 R2
	Fedora 19 64-bit
	RedHat Enterprise Linux 6.5 64-bit
	Ubuntu 13.10 64-bit

I/O Interfaces

Serial ATA	4 Serial ATA ports with 6 Gb/s data transfer rate on SHB SATA ports support RAID 0, 1, 5, 1+0 by Intel Rapid Storage Technology
PCIe/PCI Bus (via backplane)	1x PCIe x16, Rev.3.0 can be configured to 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 via BOM option. Default is 1x PCIe x8 + 2x PCIe x4
	4x PCIe x1, Rev. 2.0 (4x PCIe x1 or 1x PCIe x4 compatible)
	4x PCI 32-bit/33MHz
USB	6x USB 3.0 ports on SHB, 2x on faceplate, 4x on SHB
	4x USB 2.0 ports on backplane
KB/MS	1x internal pin header for PS/2 keyboard/mouse
Serial Port	5x RS-232 and 1x RS-232/422/485 with auto flow control (select by jumper)

Audio

Audio Codec	Realtek ALC262 support by DB-Audio2 daughter board
Interface	Pin header for High Definition Audio interface

Display

Graphics	Integrated Intel® HD Graphics
VGA	Resolutions up to 1920 x 1200 @ 60 Hz with reduced blanking (pixel frequency: 154 MHz), VGA RAMDAC supports up to 180 MHz
DVI	1x internal pin header for DVI-D output

Ethernet

Controller	Intel® I217LM Gigabit Ethernet PHY
	Intel® I211-AT Gigabit Ethernet controller
Interface	PCIe x1 bus
iAMT	Supports Intel® AMT 9.0
Wake On LAN	Support on LAN 1

Mechanical and Environmental

Form Factor	Full-Size PICMG® 1.3 System Host Board
Dimensions	338 mm x 126 mm (L x W)
Operating Temp.	0°C to 60°C (for 54W TDP or lower CPU)
Storage Temp.	-20°C to 80°C
Certifications	CE, FCC Class A
Relative Humidity	10% to 90%, non-condensed

Ordering Information

Model Number	Description/Configuration
NuPRO-E72	PICMG® 1.3 Full-Size LGA1150 Intel® Xeon® E3-1200 v3 Processor-based SHB

Note: CPU, Memory module and Cooler kit are not included.

Optional Accessories

Model Number	Description/Configuration
LGA1156 1U CPU Cooler	LGA1156 1U Thermal Module
LGA1156 2U CPU Cooler	LGA1156 2U Thermal Module
LGA1156 3U CPU Cooler	LGA1156 3U Thermal Module
DB-Audio2	High Definition Audio daughter board with Mic-in/ Line-in/Line-out
DVI cable with bracket	
PS/2 cable with bracket for keyboard/mouse	
1x 2-port USB 2.0 cable with bracket	
1x 2-port COM cable with bracket	

Packin List

NuPRO-E72	1x 2-port USB 3.0 cable with bracket
2x SATA data cable	3x 2-port COM cable with bracket
User's manual	Driver DVD

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