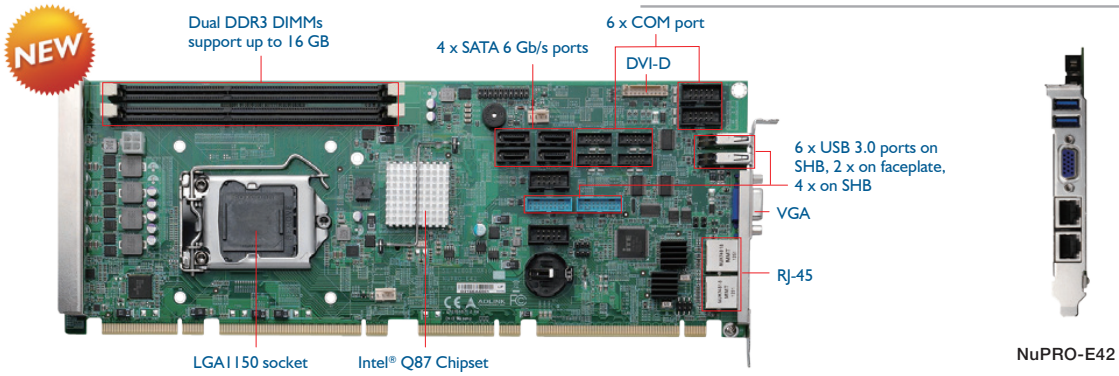
NuPRO-E42

PICMG® 1.3 Full-Size LGA1150 Intel® Core™ i7/i5/i3/Pentium® Processor-based SHB



Features

- **4th Gen Intel® Core™ i7/i5/i3/Pentium® processor**
- **Intel® Q87 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® Core™ i7-4770S, 3.10 GHz, 8M Cache, 22nm, 65W TDP, LGA1150 (4C)
	Intel® Core™ i5-4570S, 2.90 GHz, 6M Cache, 22nm, 65W 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)
Chipset	Intel® Q87 Express chipse
Memory	2x 240-pin DIMM sockets
	Dual-channel DDR3 1600 MHz, up to 16 GB
BIOS	AMI® BIOS, 2x32 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® XP 32-bit
	Microsoft® Windows® 7 32/64-bit
	Microsoft® Windows® 8 32/64-bit
	Microsoft® Windows® Server 2008 R2
	Ubuntu 13.10

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	1x PCIe x16, Rev. 3.0
(via backplane)	4x PCIe x1, Rev. 2.0 (4x PCIex1 or 1x PCIex4 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 LAN1

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
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-E42	PICMG® 1.3 Full-Size LGA1150 Intel® Core™ i7/i5/i3/Pentium® 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	

Packing List

NuPRO-E42	1x 2-port USB 3.0 cable with bracket
2x SATA data cable	2x 2-port COM cable with bracket
User's manual	Driver DVD

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