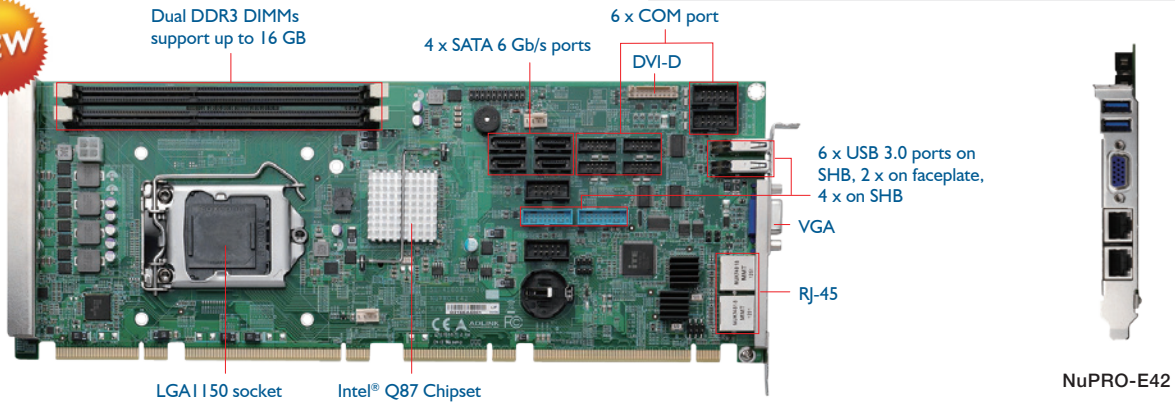


# NuPRO-E42

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



NuPRO-E42

## 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

<b>CPU</b>	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)
<b>Chipset</b>	Intel® Q87 Express chipset
<b>Memory</b>	2x 240-pin DIMM sockets Dual-channel DDR3 1600 MHz, up to 16 GB
<b>BIOS</b>	AMI® BIOS, 2x32 Mbit SPI Flash memory
<b>TPM</b>	Infineon SLB 9635 TT 1.2
<b>Watchdog Timer</b>	1-255 sec or 1-255 min software programmable and can generate system reset
<b>Hardware Monitor</b>	CPU/System temperature, fan speed and onboard DC voltages
<b>Operation Systems</b>	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

<b>Serial ATA</b>	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
<b>PCIe/PCI Bus (via backplane)</b>	1x PCIe x16, Rev. 3.0 4x PCIe x1, Rev. 2.0 (4x PCIe1 or 1x PCIe4 compatible) 4x PCI 32-bit/33MHz
<b>USB</b>	6x USB 3.0 ports on SHB, 2x on faceplate, 4x on SHB 4x USB 2.0 ports on backplane
<b>KB/MS</b>	1x internal pin header for PS/2 keyboard/mouse
<b>Serial Port</b>	5x RS-232 and 1x RS-232/422/485 with auto flow control (select by jumper)

## Audio

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

## Display

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

## Ethernet

<b>Controller</b>	Intel® I217LM Gigabit Ethernet PHY Intel® I211-AT Gigabit Ethernet controller
<b>Interface</b>	PCIe x1 bus
<b>iAMT</b>	Supports Intel® AMT 9.0
<b>Wake On LAN</b>	Support on LAN1

## Mechanical and Environmental

<b>Form Factor</b>	Full-Size PICMG® 1.3 System Host Board
<b>Dimensions</b>	338 mm x 126 mm (L x W)
<b>Operating Temp.</b>	0°C to 60°C
<b>Storage Temp.</b>	-20°C to 80°C
<b>Certifications</b>	CE, FCC Class A
<b>Relative Humidity</b>	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