

# NuPRO-E43

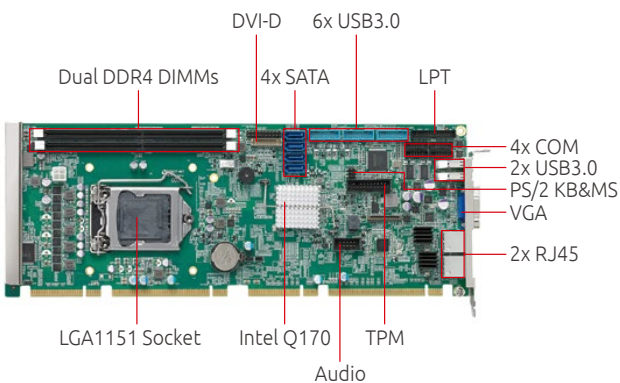
PICMG® 1.3 Full-Size LGA1151 Intel® Core™ i7/i5/i3 Processor-based SHB

## Features

- 6th Gen Intel® Core™ i7/i5/i3 processor
- Intel® Q170 Express chipset supporting PCI Express 3.0
- Two DIMM socket support up to 32 GB DDR4 2133
- Four SATA 3.0 onboard with Intel Software RAID support
- Four COM ports (including RS-232/422/485)
- SEMA and SEMA Cloud support
- Intel PCIe slot bifurcation support



## Product Illustration



NuPRO-E43

## Ordering Information

### Modules

- **NuPRO-E43**

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

## Packing Lists

- NuPRO-E43
- 2x SATA data cable
- 1x 2 port USB 3.0 cable with bracket
- 1x 2 ports COM cable with bracket

## Optional Accessories

- **TPM Module**  
TPM module, Atmel AT97SC3204 TIS 1.2
- **DB-Audio 2**  
DB-Audio 2, High definition audio daughter board with mic-in/line-in/line-out
- **1U CPU Cooler**  
1U Thermal Module
- **2U CPU Cooler**  
2U Thermal Module
- **3U CPU Cooler**  
3U Thermal Module
- **PS/2 cable with bracket for keyboard/mouse**
- **DVI-D Cable with Bracket**
- **2 Port COM Cable with Bracket**
- **2 Port USB 3.0 right angle With Bracket**
- **1 Port COM Cable with Bracket**
- **Print Port Cable with Bracket**

# Specifications

Processor System		I/O Interfaces	
CPU	Intel® Core™ i7-6700, 3.4 GHz, 8M Cache, 14nm, 65W TDP, LGA1151 (4C/8T)	<b>Serial ATA</b>	4 x SATA 6.0 Gb/s connectors Software RAID support 0/1/5/10
	Intel® Core™ i7-6700TE, 2.4 GHz 8M Cache, 14nm, 35W TDP, LGA1151 (4C/8T)	<b>Serial port</b>	2x RS-232 via onboard 2.0 pitch box header 2x RS-232/422/485 with auto flow control via onboard 2.0 pitch box header
	Intel® Core™ i5-6500, 3.2 GHz, 6M Cache, 14nm, 65W TDP, LGA1151 (4C/4T)	<b>PCIe/PCI Bus (Via backplane)</b>	1x PCIe x16 with Intel PCIe slot bifurcation support and can be configured to: 1x PCIe 16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 to backplane (based on backplane)
	Intel® Core™ i5-6500TE, 2.3 GHz, 6M Cache, 14nm, 35W TDP, LGA1151 (4C/4T)		1 x PCIe x4 to backplane 4 x PCI to backplane
	Intel® Core™ i3-6100, 3.7 GHz, 3M Cache, 14nm, 51W TDP, LGA1151 (2C/4T)	<b>USB</b>	8x USB 3.0 (2 on rear I/O& 6 onboard box header) 4x USB 2.0 to backplane
	Intel® Core™ i3-6100TE, 2.7 GHz, 4M Cache, 14nm, 35W TDP, LGA1151 (2C/4T)	<b>LPT Port</b>	1x LPT port via onboard box header
	Intel® Pentium® G4400, 3.3GHz, 3M Cache, 14nm, 54W TDP, LGA1151 (2C/2T)	<b>Audio</b>	1x box header for audio module DB-Audio2
	Intel® Pentium® G4400TE, 2.4GHz, 3M Cache, 14nm, 35W TDP, LGA1151 (2C/2T)	<b>KB/MS</b>	1x pin header for PS/2 keyboard& Mouse
	Intel® Celeron® G3900, 2.8GHz, 2M Cache, 14nm, 51W TDP, LGA1151 (2C/2T)	<b>Audio</b>	
	Intel® Celeron® G3900TE, 2.3GHz, 2M Cache, 14nm, 35W TDP, LGA1151 (2C/2T)	<b>Audio Codec</b>	Realtek® ALC262 support by DB-Audio2 daughter board (optional)
<b>Chipset</b>	Intel® Q170 Express Chipset	<b>Interface</b>	Intel® High Definition Audio via onboard box header
<b>Memory</b>	Dual-channel DDR4-2133 up to 32 GB	<b>Display</b>	
<b>BIOS</b>	AMI® UEFI BIOS 128 Mbit SPI Flash Memory	<b>Graphics</b>	Integrated Intel® HD Graphics series, based on CPU for different GPU
<b>TPM</b>	1x box header for TPM module (optional) Atmel AT97SC3204 TIS 1.2	<b>VGA</b>	1x VGA on rear I/O, resolution up to 1920 x 1200 @60Hz
<b>Watchdog Timer</b>	24~65535 sec. software programmable and can be generate system reset	<b>DVI-D</b>	1x DVI-D via onboard pin header, resolution up to 1920 x 1200@60Hz
<b>Hardware Monitor</b>	CPU voltage	<b>Ethernet</b>	
	+3.3 V voltage	<b>Controller</b>	LAN1: Intel® I219LM PHY via RJ45 LAN2: Intel® I211-AT via RJ45
	+5 V voltage	<b>Interface</b>	PCIe x1 bus
	+12 V voltage	<b>iAMT</b>	Support on LAN1
	CPU temperature	<b>Wake On LAN</b>	Support on LAN1
CPU fan speed	<b>Manageability</b>		
<b>Operating Systems</b>	Microsoft® Windows® 7 32/64-bit	<b>SEMA</b>	SEMA support with BMC, SEMA Cloud
	Microsoft® Windows® 8.1 64-bit	<b>Mechanical and Environmental</b>	
	Microsoft® Windows® 10 64-bit	<b>Form Factor</b>	Full-sized PICMG® 1.3 system Host Board
	Ubuntu 15.10	<b>Dimensions</b>	338 mm x 126 mm (L x W)
		<b>Operating Temp.</b>	0°C to 60°C
		<b>Storage Temp.</b>	-40°C to 80°C
		<b>Certifications</b>	CE & FCC Class B
		<b>Relative Humidity</b>	5% to 95%, non-condensing

\*Extending operating temperature is optional and requires use of an industrial solid-state drive storage device or CFast card..

\*\*Other Linux Distribution support by request



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