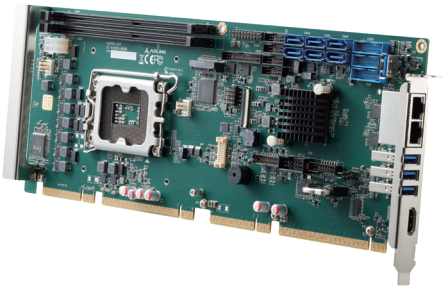
NuPRO-E47

PICMG 1.3 Full-Size SBC supporting
Intel® Core™ Series 2 Processors and 14/13/12th Gen Intel® Core™ Processors

Features

- Intel® Core™ Series 2 Processors and 14/13/12th Gen Intel® Core™ Processors, up to 65W
- Intel® Q670E Express chipset supporting PCI Express 3.0
- Two DIMM socket support up to 64 GB Non-ECC DDR5 4800 MHz
- Six SATA 3.0 onboard with RAID support
- Four COM ports (including RS-232/422/485)
- Intel® PCIe slot bifurcation support
- Supports EdgeGO Remote Management and Control Software



Windows Ubuntu EdgeGO

ASD+

Ordering Information

PN	Model Name	Chipset	Memory	PCIe x16	PCIe x4	PCI	DP	HDMI	LAN	COM	SATA	USIM	M.2	USB2.0	USB3.0 (Gen1)	USB3.2 (Gen2)	RAID	AMT
91-41810-01XX	NuPRO-E47	Q670E	Non-ECC DDR5 4800 MHz	1 (to back plane)	1 (to back plane)	4	-	1	2	4	6	-	1	4 (to back plane)	7	3	Yes	Yes

Packing Lists

PN	Description	QTY
59-41810-0110	NuPRO-E47	1
30-10057-7000	SATA data cable	2
30-25046-0110-A0	2-port USB 3.0 cable with bracket	1
30-25003-1000	2-port COM cable with bracket	1
30-25019-0010	print port cable with bracket	1

Optional Accessories

PN	Description
91-49030-0010	DB-Audio2, (High definition audio)
32-21002-0000-A0	LGA1700 1U CPU cooler
32-20976-1000-A0	LGA1700 2U CPU cooler
30-25309-0000-A0	DVI-D/VGA cable with bracket
30-25305-0020-A0	4-port USB 3.0 cable with bracket
30-25046-0110-A0	2-port USB 3.0 cable (right angle) with bracket
30-25003-2100	1-port COM cable with bracket
30-25136-0000-A0	DIO cable with bracket

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Embedded OS

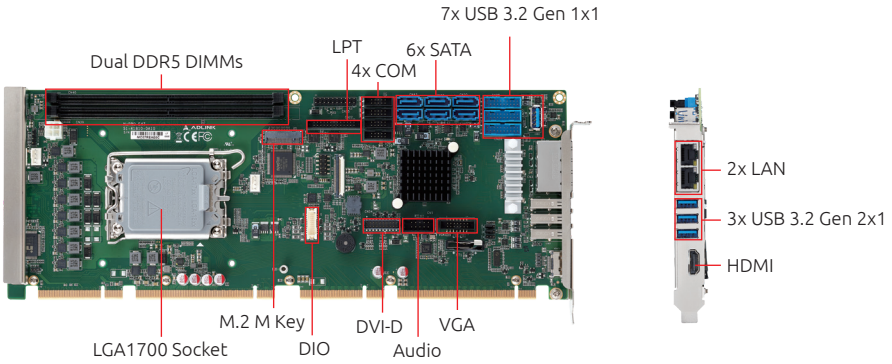
PN	Description
92-56094-0010	Windows 10 IoT Ent LTSC 2021 High End PKEA
92-56094-2010	Windows 10 IoT Ent LTSC 2021 Value PKEA
92-56094-4010	Windows 10 IoT Ent LTSC 2021 Entry PKEA
92-56101-0010	Windows 11 IoT Ent 2022 High End PKEA
92-56101-2010	Windows 11 IoT Ent 2022 Value PKEA
92-56101-4010	Windows 11 IoT Ent 2022 Entry PKEA

Specifications

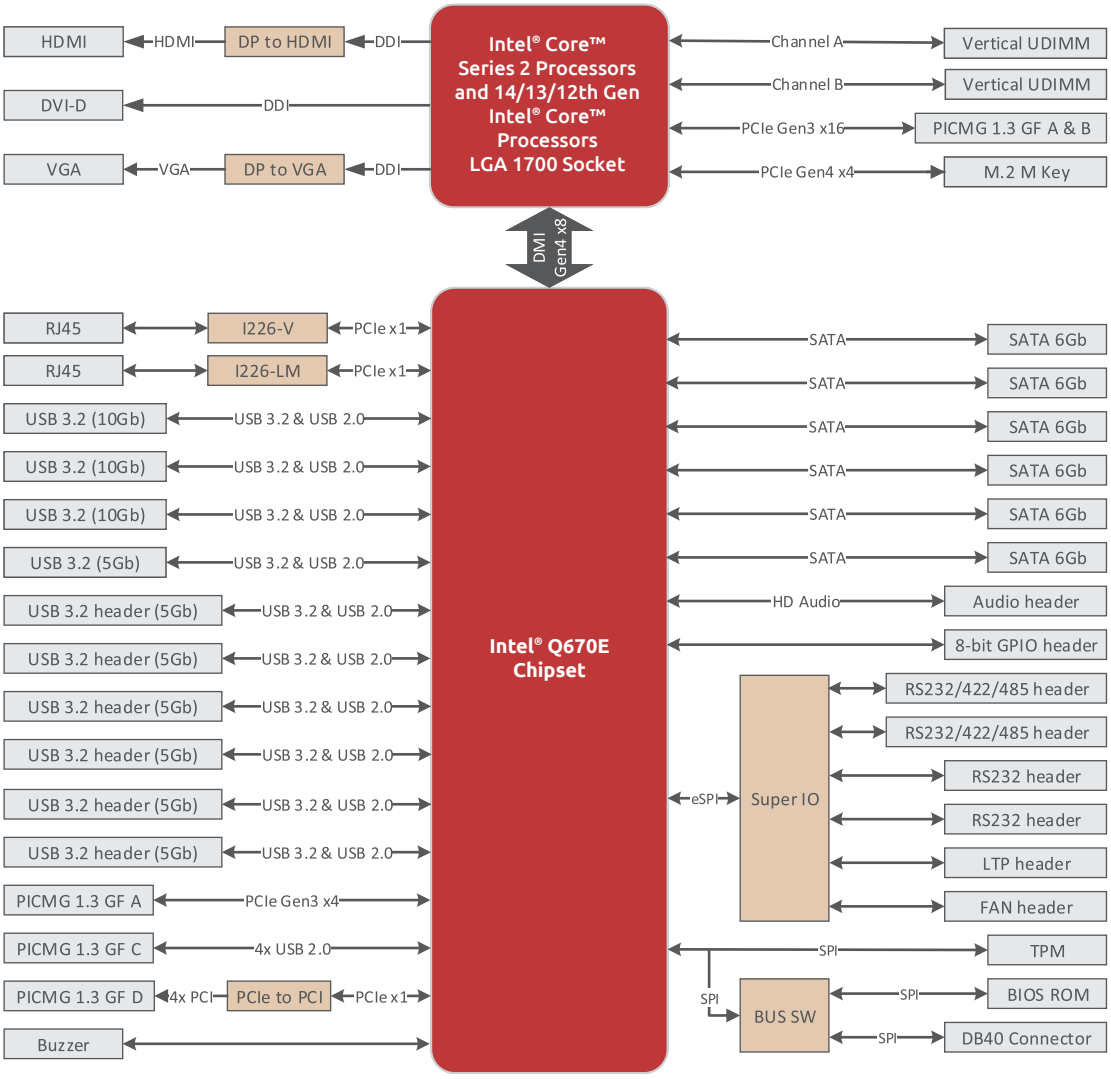
Model	NuPRO-E47
Processor System	
CPU	Intel® Core™ Series 2 Processors and 14/13/12th Gen Intel® Core™ Processors, up to 65W
Chipset	Intel® Q670E Express Chipset
Memory	Dual-channel Non-ECC DDR5 4800 MHz, up to 64 GB
BIOS	AMI® UEFI BIOS 256 Mbit SPI Flash Memory
Watchdog Timer	1 to 65536 sec. software programmable and can be generate system reset
Hardware Monitor	CPU temperature System temperature System voltage CPU fan speed
Operating Systems	Microsoft® Windows® 10 64-bit Microsoft® Windows® 11 64-bit Ubuntu 20.04.06
I/O Interfaces	
M.2	1x M.2 M-Key, 2280, support PCIe Gen4 x4
SATA	6x SATA 3.0 onboard with RAID support
Serial Ports	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
Expansion Slots (Via backplane)	1x PCIe x16 with Intel® PCIe slot bifurcation support and can be configured to: 1x PCIe x16 or 2x PCIe x8 to backplane (based on backplane) 1x PCIe x4 to backplane 4x PCI to backplane
I/O Interfaces	
USB	3x USB 3.2 Gen2 x1 ports (10Gbps) on rear I/O 6x USB 3.2 Gen1 x1 via onboard box headers 1x USB 3.2 Gen1 x1 vertical type A port 4x USB 2.0 to backplane
Parallel Port	1x LPT box header
Audio	1x box header for audio module DB-Audio2
DIO	1x box header for 8-bit in and 8-bit out
Ethernet	LAN1: Intel® I226-V via RJ45 LAN2: Intel® I226-LM via RJ45
TPM	INFINEON TPM SLB 9670XQ2.0 or 9670VQ2.0
Audio	
Audio Codec	Realtek® ALC262 support by DB-Audio2 daughter board
Interface	Intel® High Definition Audio via onboard box header
Graphics	
Graphics	Integrated Intel® HD Graphics series, based on CPU for different GPU
HDMI	1x HDMI on rear I/O, resolution up to 4096 x 2160 @ 60Hz
DVI-D	1x DVI-D via onboard pin header, resolution up to 1920 x 1200 @ 60Hz
VGA	1x VGA via onboard pin header, resolution up to 1920 x 1200 @ 60Hz
Mechanical and Environmental	
Form Factor	Full-sized PICMG® 1.3 system Host Board
Dimension	338 mm x 126 mm (L x W)
Operating Temperature	0 °C to 60 °C
Storage Temperature	-40°C to 80°C
Relative Humidity	
	5% to 95%, non-condensing
Certification	
	CE & FCC Class A

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Product Illustration



Block Diagram



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CPU Support List

Family	Number	CPU Core	Frequency	Cache	Processor Base Power	Since BIOS
Alder Lake	i9-12900E	16 Cores	5.0 GHz	30 MB	65 W	1.00.10
Alder Lake	i9-12900TE	16 Cores	4.8 GHz	30 MB	35 W	1.00.10
Alder Lake	i7-12700E	12 Cores	4.8 GHz	25 MB	65 W	1.00.10
Alder Lake	i7-12700TE	12 Cores	4.7 GHz	25 MB	35 W	1.00.10
Alder Lake	i7-12700	12 Cores	4.9 GHz	25 MB	65 W	2.03.10
Alder Lake	i5-12500E	6 Cores	4.5 GHz	18 MB	65 W	1.00.10
Alder Lake	i5-12500TE	6 Cores	4.3 GHz	18 MB	35 W	1.00.10
Alder Lake	i5-12500	6 Cores	4.6 GHz	18 MB	65 W	2.03.10
Alder Lake	i5-12400	6 Cores	4.4 GHz	18 MB	65 W	2.03.10
Alder Lake	i3-12100E	4 Cores	4.2 GHz	12 MB	60 W	1.00.10
Alder Lake	i3-12100TE	4 Cores	4.0 GHz	12 MB	35 W	1.00.10
Alder Lake	i3-12100	4 Cores	4.3 GHz	12 MB	60 W	2.06.10
Alder Lake	G7400E	2 Cores	3.6 GHz	6 MB	46 W	1.00.10
Alder Lake	G7400TE	2 Cores	3.0 GHz	6 MB	35 W	1.00.10
Alder Lake	G6900E	2 Cores	3.0 GHz	4 MB	46 W	1.00.10
Alder Lake	G6900TE	2 Cores	2.4 GHz	4 MB	35 W	1.00.10
Raptor Lake	i9-13900E	24 Cores	5.2 GHz	36 MB	65 W	2.03.10
Raptor Lake	i9-13900TE	24 Cores	5.0 GHz	36 MB	35 W	2.03.10
Raptor Lake	i9-13900	24 Cores	5.6 GHz	36 MB	65 W	2.03.10
Raptor Lake	i7-13700E	16 Cores	5.1 GHz	30 MB	65 W	2.03.10
Raptor Lake	i7-13700TE	16 Cores	4.8 GHz	30 MB	35 W	2.03.10
Raptor Lake	i7-13700	16 Cores	5.2 GHz	30 MB	65 W	2.03.10
Raptor Lake	i7-13700T	16 Cores	4.9 GHz	30 MB	35 W	2.03.10
Raptor Lake	i5-13500E	14 Cores	4.6 GHz	24 MB	65 W	2.03.10
Raptor Lake	i5-13500TE	14 Cores	4.5 GHz	24 MB	35 W	2.03.10
Raptor Lake	i5-13500	14 Cores	4.8 GHz	24 MB	65 W	2.03.10
Raptor Lake	i5-13500T	14 Cores	4.6 GHz	24 MB	35 W	2.03.10
Raptor Lake	i5-13400E	10 Cores	4.6 GHz	20 MB	65 W	2.03.10
Raptor Lake	i3-13100E	4 Cores	4.4 GHz	12 MB	60 W	2.03.10
Raptor Lake	i3-13100TE	4 Cores	4.1 GHz	12 MB	35 W	2.03.10
Raptor Lake	i3-13100	4 Cores	4.5 GHz	12 MB	60 W	2.03.10
Raptor Lake	i3-13100T	4 Cores	4.2 GHz	12 MB	35 W	2.03.10
Raptor Lake Refresh	i9-14900	24 Cores	5.8 GHz	36 MB	65 W	2.06.10
Raptor Lake Refresh	i9-14900T	24 Cores	5.5 GHz	36 MB	35 W	2.06.10
Raptor Lake Refresh	i9-14901E	8 Cores	5.6 GHz	36 MB	65 W	2.06.10
Raptor Lake Refresh	i9-14901TE	8 Cores	5.5 GHz	36 MB	45 W	2.06.10
Raptor Lake Refresh	i7-14700	20 Cores	5.4 GHz	33 MB	65 W	2.06.10
Raptor Lake Refresh	i7-14700T	20 Cores	5.2 GHz	33 MB	35 W	2.06.10
Raptor Lake Refresh	i7-14701E	8 Cores	5.4 GHz	33 MB	65 W	2.06.10
Raptor Lake Refresh	i7-14701TE	8 Cores	5.2 GHz	33 MB	45 W	2.06.10
Raptor Lake Refresh	i5-14500	14 Cores	5.0 GHz	24 MB	65 W	2.06.10
Raptor Lake Refresh	i5-14500T	14 Cores	4.8 GHz	24 MB	35 W	2.06.10
Raptor Lake Refresh	i5-14501E	6 Cores	5.2 GHz	24 MB	65 W	2.06.10
Raptor Lake Refresh	i5-14501TE	6 Cores	5.1 GHz	24 MB	45 W	2.06.10
Raptor Lake Refresh	i5-14401E	6 Cores	4.7 GHz	24 MB	65 W	2.06.10
Raptor Lake Refresh	i5-14401TE	6 Cores	4.5 GHz	24 MB	45 W	2.06.10
Raptor Lake Refresh	i3-14100	4 Cores	4.7 GHz	12 MB	60 W	2.06.10
Raptor Lake Refresh	i3-14100T	4 Cores	4.4 GHz	12 MB	35 W	2.06.10

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