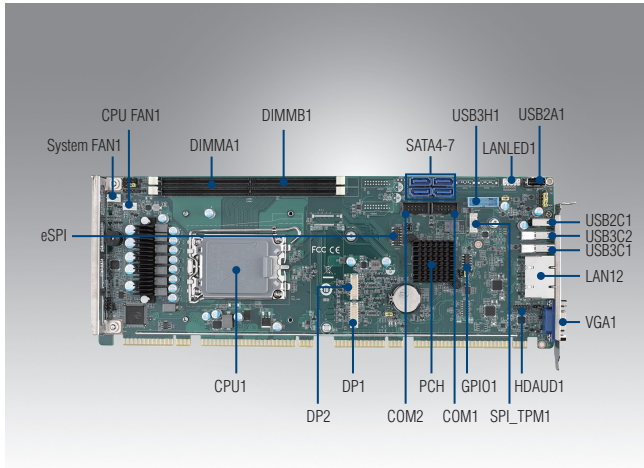


PCE-5033

LGA1700 12th/13th Generation Intel® Core™ i9/i7/i5/i3/Pentium® System Host Board with DDR5, SATA 3.0, USB 3.2, Dual 2.5GbE, and Triple Displays



Quiet

Specifications

CE FCC

Features

- Intel® Core™ i9/i7/i5/i3/Pentium LGA1700 processor with H610E chipset
- Up to 64 GB of dual-channel (Non-ECC) DDR5 5600 MHz
- PCIe 3.0, USB 3.2, SATA 3.0, and Dual 2.5GbE LAN
- Supports VGA and 2 x DVI-D/DP/HDMI display (with optional cable)
- Supports Advantech's TPM and COM modules, SUSI 4.0, and embedded software APIs

Note: Legacy platform is not supported.

Vertrieb durch



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14 th Generation Processors	CPU	I9-14900	I9-14900T	I7-14700	I7-14700T	I5-14500	I5-14500T	I5-14400	I5-14400T	I5-14400F	I3-14100	I3-14100T	300	300T
	P-core Base Frequency	2.0 GHz	1.1 GHz	2.1 GHz	1.3GHz	2.6 GHz	1.7 GHz	2.5 GHz	1.5 GHz	2.5 GHz	3.5 GHz	2.7 GHz	3.9 GHz	3.4 GHz
	L3 Cache	36 MB	36 MB	33 MB	33 MB	24 MB	24 MB	20 MB	20 MB	20 MB	12 MB	12 MB	6 MB	6 MB
	Cores	24	24	20	14	14	10	10	10	10	4	4	2	2
	Processor Base Power	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	65 W	60 W	35 W	46 W	35 W
14 th Generation Processors P-core only	CPU	I9-14901KE	I9-14901E	I9-14901TE	I9-14701E	I9-14701TE	I5-14401E	I5-14401TE	I5-14501E	I5-14501TE				
	P-core Base Frequency	3.8 GHz	2.8 GHz	2.3 GHz	2.6 GHz	2.1 GHz	2.5 GHz	2 GHz	3.3 GHz	2.2 GHz				
	L3 Cache	36MB	36MB	36MB	33MB	33MB	24MB	24MB	24MB	24MB				
	Cores	8	8	8	8	8	6	6	6	6				
	Processor Base Power	125W	65W	45W	65W	45W	65W	45W	65W	45W				
13 th Generation Processors	CPU	I9-13900(E)	I9-13900TE	I7-13700(E)	I7-13700TE	I5-13500(E)	I5-13500TE	I5-13400(E)	I3-13100(E)	I3-13100TE				
	P-core Base Frequency (Up to)	2.0 GHz	1.1 GHz	2.1 GHz	1.4 GHz	2.5 GHz	1.6 GHz	2.5 GHz	3.4 GHz	2.5 GHz				
	L3 Cache	36 MB	36 MB	30 MB	30 MB	24 MB	24 MB	20MB	12 MB	12 MB				
	Cores	24	24	16	16	14	14	10	4	4				
	Processor Base Power	65 W	35 W	65 W	35 W	65 W	35 W	65W	60 W	35 W				
12 th Generation Processors	CPU	I9-12900(E)	I9-12900TE	I7-12700(E)	I7-12700TE	I5-12500(E)	I5-12400	I5-12500TE	I3-12100(E)	I3-12100TE	Pentium G7400E	Pentium G7400TE	Celeron G6900E	Celeron G6900TE
	P-core Base Frequency (Up to)	2.4 GHz	1.1 GHz	2.1 GHz	1.4 GHz	3.0 GHz	2.5 GHz	1.9 GHz	3.3 GHz	2.1 GHz	3.6 GHz	3.0 GHz	3.0 GHz	2.4 GHz
	L3 Cache	30 MB	30 MB	25 MB	25 MB	18 MB	18 MB	18 MB	12 MB	12 MB	6 MB	6 MB	4 MB	4 MB
	Cores	16	16	12	12	6	6	6	4	4	2	2	2	2
	Processor Base Power	65 W	35 W	65 W	35 W	65 W	65 W	35 W	60 W	35 W	46 W	35 W	46 W	35 W
	Socket	LGA 1700												
	Chipset	H610												
Bus	PCI-Express	1 x PCIe x16 and 1 x PCIe x4 to backplane												
	PCI	4 x PCI master to backplane, 32-bit, 33 MHz												
Memory	Technology	Dual-channel (Non-ECC) U-DIMM DDR5 5600 MHz												
	Max. Capacity	Up to 64GB (based on CPU)												
	Socket	2 x DDR5 288-pin DIMM												
Graphics	Controller	Chipset integrated with Intel® UHD Graphics												
	VRAM	Shared system memory is subject to OS												
	VGA	Supports resolutions of up to 2048 x 1152 pixel @ 60 MHz												
	DVI-D	Supports resolutions of up to 1920x 1200 @ 60 MHz												
	Display Port	Supports resolutions of up to 4096 x 2160 @ 60 MHz												
	HDMI	Supports resolutions of up to 1920 x 1080 @ 60MHz												
	Triple Display	1st: VGA, 2nd DP/DVI-D/HDMI, 3rd DP/DVI-D/HDMI (2nd and 3rd display via optional cable)												
Ethernet	Interface	10/100/1000/2500 Mbps												
	Controller	LAN 1: Intel® I226V LAN 2: Intel® I226V												
	Connector with LED	2 x RJ45												

ADVANTECH

All product specifications are subject to change without notice.



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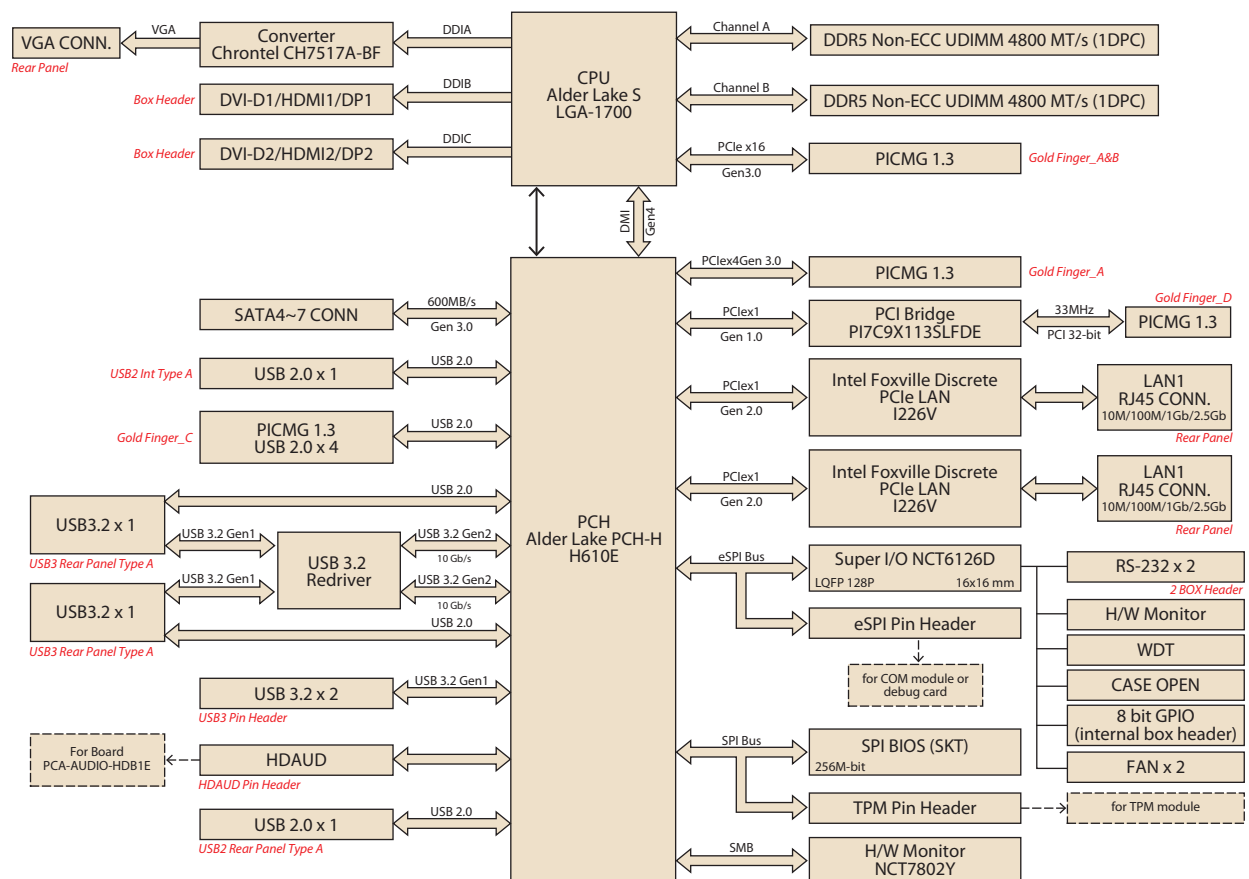
Last updated: 22-Aug-2024

Specifications (Cont.)

Rear I/O	USB 3.2 Gen1	2
	USB2.0	1
	Ethernet	2
	VGA	1
Internal Connector	USB	5 x USB 2.0 (1 USB Type A + 4 to backplane), 2 x USB 3.2
	SATA	4
	M.2 (2280 Type M)	N/A
	DP/DVI-D/HDMI	2 (Pin header)
	COM	2 x RS232
	GPIO	8bit
Watchdog Timer	Output	System reset
	Interval	Programmable 1-255 sec
Miscellaneous	Audio	Intel® High Definition audio interface (requires audio extension module PCA-AUDIO-HDB1E)
Power Requirement	Test Environment	Intel i9-12900E, Memory *2 DDR5 16GB
	Voltage	+3.3V, +5V, +12V
	Current	2.52A, 4.13A, 6.86A
Environment	Operating	Non-Operating
	Temperature	0 ~ 60 °C (dependent on CPU and cooler solution) -40 ~ 85 °C
	Humidity	40 °C @ 85% relative humidity (non-condensing) 60 °C @ 95% relative humidity (non-condensing)
Physical	Dimensions (L x H)	338 x 122 mm (13.3" x 4.8")

Note: Power must be turned off before installing any expansion modules

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/DVI-D/HDMI	COM	SATA III	M.2	USB 2.0	USB 3.2 (Gen1)	USB 3.2 (Gen2)	S/W Raid	AMT
PCE-5033G2-00A1	H610E	Non-ECC	PCE-5BXX	2	Yes	2*	2	4	N/A	2	4	N/A	N/A	N/A

Note: DP/DVI/HDMI cable is optional

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1701090401	COM cable w/ BKT 40cm	x1
2190000902	Warranty card	x1
2041513300	Startup manual	x1

I/O View



PCE-5033G2-00A1

Optional Accessories

Part Number	Description
1970005349T000	CPU cooler for 2U, 4U, and wall-mount chassis (for CPU Base Power=35~125W)
PCA-AUDIO-HDB1E	Audio module
PCA-COM232-ESPA1	4-port RS-232 eSPI module
PCA-COM485-ESPA1	4-port RS-422/485 eSPI module
1700002204	2-port USB2.0 cable w/BKT (27 cm)
1700028292-01	2-port USB 3.0 cable w/ BKT (30 cm)
1700021831-01	DP to DVI-D cable w/ BKT
1701090401	1-port COM cable kit
1701092300	2-port COM cable kit
PCE-DP10-00A1E	DP to DP cable w/ BKT
PCE-DP20-00A1	2-port DP to DP cable w/BKT
1700034454-01	DP to HDMI cable w/ BKT
PCA-TPMSPI-00A1	dTPM 2.0 SPI module to enable TPM and vPro technologies
20706WX1HS0055	PCE-5033 win 10 embedded OS (high-end)
20706WX1VS0055	PCE-5033 win 10 embedded OS (value)
20706WX1ES0055	PCE-5033 win 10 embedded OS (entry)
20706WLH1S0025	PCE-5033 win 11 embedded OS (high-end)
20706WLV1S0025	PCE-5033 win 11 embedded OS (value)
20706WLE1S0025	PCE-5033 win 11 embedded OS (entry)

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