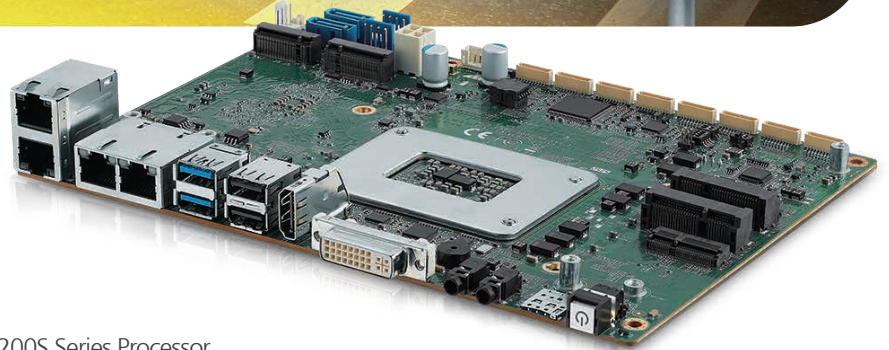


EXBC 3000

Intel® Core™ 200S Series and 14/13/12th Gen Intel® Core™ Processor
5.25" Embedded Single Board Computer



^ Intelligent Transportation



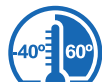
- Workstation-grade Platform : Intel® Core™ 200S Series Processor running with Intel® H610E PCH supports max 65W TDP CPU
- Supports 2 DIMM up to 96GB DDR5 5600MHz memory
- 2 USB3.2, 2 USB2.0, 4 COM RS-232/422/485
- 4 Independent Intel® GigE LAN ports, including 3 x 2.5GbE
- 2 External SIM Card Socket support WiFi/4G/5G/LTE/GPRS/UMTS
- Key E, Key B, 2 Mini PCIe for PCIe/USB/SIM Card expansions
- 12V DC Power Input, Software Ignition Control
- Supports operating temperatures from -40°C to 60°C

∨ Smart Manufacturing



^ Advanced AMR

intel



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Specifications

System

Processor	- 24-core Intel® Core™ 200S Series Processor (Bartlett Lake-S) - 24-core 14th Gen Intel® Core™ i9/i7/i5/i3 Processor (Raptor Lake-S Refresh) - 24-core 13th Gen Intel® Core™ i9/i7/i5/i3 Processor (Raptor Lake-S) - 16-core 12th Gen Intel® Core™ i9/i7/i5/i3 Processor (Alder Lake-S)
Chipset	Intel H610E
BIOS	AMI
SIO	IT8786E
Memory	2 DDR5 5600MHz SO-DIMM, up to 96GB
OS	Windows 10, Windows 11, Linux

Graphics

GPU	Intel® X ^e LPG Graphics architecture, up to 4X ^e Graphics Engines
Interface	1 HDMI 2.0 : Up to 3840 x 2160 @60Hz 1 DVI-I : Up to 1920 x 1080 @60Hz

Ethernet

LAN 1	Intel® I219LM GigE LAN
LAN 2 - 4	Intel® I226 2.5GigE LAN

Audio

Audio Codec	Realtek ALC888S-VD2, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

I/O Interface

Front I/O	- 1 Power Button, 1 Reset Button - 1 Power LED, 1 HDD LED - 2 USB3.2 (10G) - 2 USB2.0 - 1 GigE RJ45 LAN - 3 2.5 GigE RJ45 LAN - 1 HDMI 2.1 - 1 DP 2.1 - 1 Audio Jack (Mic-in + Line-out) - 2 External SIM
Internal I/O	- 2 DDR5 SO-DIMM Socket - 2 SATA Data Connector - 2 SATA Power Connector - 1 USB2.0 Header - 1 CPU FAN Header - 1 System FAN Header - 1 Mini PCIe (PCIex1, SATA, USB2) - 1 Mini PCIe (PCIex1, SATA, USB2) with SIM - 1 M.2 Key E Socket(2230, PCIex2/USB2) - 1 M.2 Key B Socket (2280/3042/3052, default PCIex1/USB3.2/USB2.0) with SIM - 1 M.2 Key M Socket(2242/2280, PCIex4) - 2 8-bit GPIO Header, 1 DIO Control Header - 4 COM header (RS-232/422/485) - 1 Ignition Header - 1 ATX 2x2 connector

Storage

SATA	2 SATA III (6Gbps)
M.2	- 1 M.2 Key M Socket (2242/2280, PCIex4) - 1 M.2 Key B Socket (2280, PCIe x2, share with expansion)

Expansion

M.2	- 1 M.2 Key E Socket(2230, PCIex2/USB2) - 1 M.2 Key B Socket (2280/3042/3052, default PCIex1/USB3.2/USB2.0) with SIM
Mini PCIe	- 1 Full-size Mini PCIe (PCIex1, SATA, USB2) - 1 Full-size Mini PCIe (PCIex1, SATA, USB2) with SIM

Power

Power Input	12V DC-in
Power Interface	ATX Power Connector
Ignition Control	16-mode Software Ignition Control

Others

TPM	Infineon SLB9670 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Management	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	203mm x 146mm (7.99" x 5.75")
Weight	344g (0.75lb)

Environment

Operating Temperature	- 35W TDP CPU with heat sink : -40°C to 60°C (-40°F to 140°F) with air flow - 65W TDP CPU with fan sink : -40°C to 60°C (-40°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @60°C
EMC	CE, FCC, ICES

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Packing List

EXBC-3000	x1
Cable Kit	
- COM Port Cable	x4
- SATA Data Cable	x2
- SATA Power Cable	x1

Order Information

Model	DC-IN	GigE LAN	2.5G LAN	USB	COM	SIM
EXBC-3000	12V	1	3	4	4	2

CPU List

Series	CPU	Cores	GHz	TDP (W)	CPU	Cores	GHz	TDP (W)
Intel® Core™ (200S)	9 273PE	12	5.7	65	9 273PTE	12	5.5	45
	7 253PE	10	5.5		7 253PTE	10	5.4	
	5 223PE	8	5.4		5 223PTE	8	5.4	
	7 251E	24	5.6		7 251TE	24	5.4	
	5 221E	14	5.2		5 221TE	14	5.0	
Intel® Core™	3 201E	4	4.8	65	3 201TE	4	4.6	35
	i9-14900	24	5.8		i9-14900T	24	5.5	
	i7-14700	20	5.4		i7-14700T	20	5.2	
	i5-14500	14	5		i5-14500T	14	4.8	
	i3-14100	4	4.7		i3-14100T	4	4.4	
	i9-13900E	24	5.2		i9-13900TE	24	5	
	i7-13700E	16	5.1		i7-13700TE	16	4.8	
	i5-13500E	14	4.6		i5-13500TE	14	4.5	
	i3-13100E	4	4.4		i3-13100TE	4	4.1	
	i9-12900E	16	5		i9-12900TE	16	4.8	
	i7-12700E	12	4.8		i7-12700TE	12	4.7	
	i5-12500E	6	4.5		i5-12500TE	6	4.3	
	i3-12100E	4	4.2		i3-12100TE	4	4	

* 14th Gen support PC Client use condition only.

Accessories

75-VT50H5K-010C	Heat Sink for EXBC-3000 Series
75-VT50FSK-010C	Fan Sink for EXBC-3000 Series
61-13Q1009-0DA	COM Port Cable
61-13B0707-386	SATA Data Cable
61-13P0430-08A	SATA Power Cable
61-13Q0001-0DA	GPIO Cable
61-193102U-156	USB 2.0 Cable

Dimensions & Drawing

Unit : mm (inch)

