

EXBC-2000 Series



5.25" Embedded Single Board Computer with 8th Gen Intel® Core™ U-Series Processor (Whiskey Lake)

- 8th Generation Intel® Core™ U-series processor (Whiskey Lake) supports up to 40% greater productivity than former generation solution
- Fanless & cableless design supports -40°C to 85°C operation
- 2 DDR4 2400MHz memory, up to 64GB
- Multiple DisplayPort and LVDS support triple independent display, up to 4K resolution
- 4-port USB 3.1 support up to 10Gbps data transfer
- 4 Independent GigE LAN with 2 IEEE 802.3at PoE+
- SIM Socket for 5G/WiFi/4G/3G/LTE/GPRS/UMTS
- 4 COM RS-232/422/485, 16 GPIO
- Expansion : M.2 Key B, M.2 Key M, M.2 Key E and Mini PCIe
- 9V to 50V DC wide range Power Input
- Ignition Power Control, TPM 2.0

Digital Signage



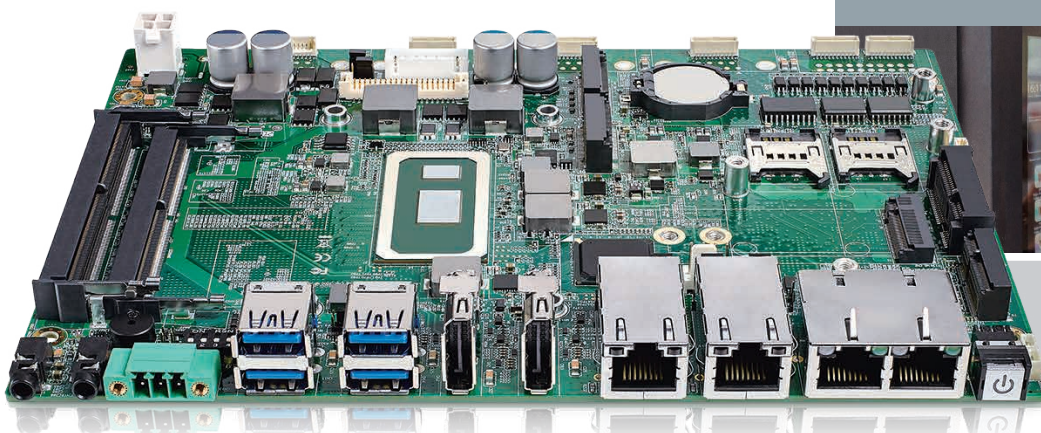
Gaming



ITS (Intelligent Transportation System)



Intelligent Vending



intel partner Gold



Specifications

EXBC-2000-20230303

System

Processor	Quad Core Intel® Core™ i7-8665UE/i3-8145UE Processor (Whiskey Lake)
Chipset	Intel® SoC (Cannon Lake)
BIOS	AMI
SIO	IT8786E
Memory	2 DDR4 2400MHz SO-DIMM, up to 64GB
OS	Windows 10, Linux

Graphics

Graphics Processor	Intel® UHD Graphics 620
Interface	3 display interfaces : - 2 DisplayPort : Up to 4096 x 2304 @60Hz - LVDS : Dual channel 24-bit, up to 1920 x 1200

Ethernet

LAN 1	GigE LAN by Intel® Ethernet Controller I350
LAN 2	GigE LAN by Intel® Ethernet Controller I350

PoE

LAN 3	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I350 with Power On/Off Control
LAN 4	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I350 with Power On/Off Control

Audio

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

Storage

M.2	- 1 M.2 Key M Socket (2280, PCIe x4/SATA) - 1 M.2 Key B Socket (2280, PCIe x2/SATA)
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I/O Interface

Front I/O	- 2 DisplayPort Connector - 4 USB 3.1 Connector - 2 RJ45 Connector - 2 PoE+ RJ45 Connector - 1 Mic-in - 1 Line-out - 1 Power Button - 1 Reset Button - 1 Remote Switch with IGN Connector - 1 HDD LED - 2 PoE+ LED
Internal I/O	- 1 Full Mini PCIe Socket - 2 DDR4 SO-DIMM - 2 SIM Card Socket - 1 M.2 Key B 3042/3052 - 1 M.2 Key B 2280 - 1 M.2 Key M 2280 - 1 M.2 Key E 2230 - 1 Fan Connector - 1 ATX 4-pin Power Connector - 4 COM RS-232/422/485 Header - 2 GPIO Header - 1 LVDS Connector - 1 LVDS Backlight Connector - 1 HDD LED Header - 1 Power LED Header

Expansion

M.2	- 1 M.2 Key E Socket (2230, PCIe) - 1 M.2 Key B Socket (3042/3052, PCIe x2/USB3)
Mini PCIe	1 Mini PCIe Socket for PCIe/USB/SIM Card

Power

Power Input	9V to 50V DC-in
Power Interface	ATX Power Connector
Ignition Control	16 Mode

Others

TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Mgmt.	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	203.0mm x 146.0mm (7.99" x 5.75")
Weight	275 g (0.61 lb)

Environment

Operating Temp.	-40°C to 85°C (-40°F to 185°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 85°C
EMC	CE, FCC

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Order Information

Model No.	CPU	GigE LAN (PoE ⁺)	USB 3.2	COM	GPIO	M.2
EXBC-2000-8665U	Core i7-8665UE	4 (2)	4	4	16	4
EXBC-2000-8145U	Core i3-8145UE					

Cable Packing List

P/N	Description	Qty
61-13Q1009-0DA	COM Port Cable	2

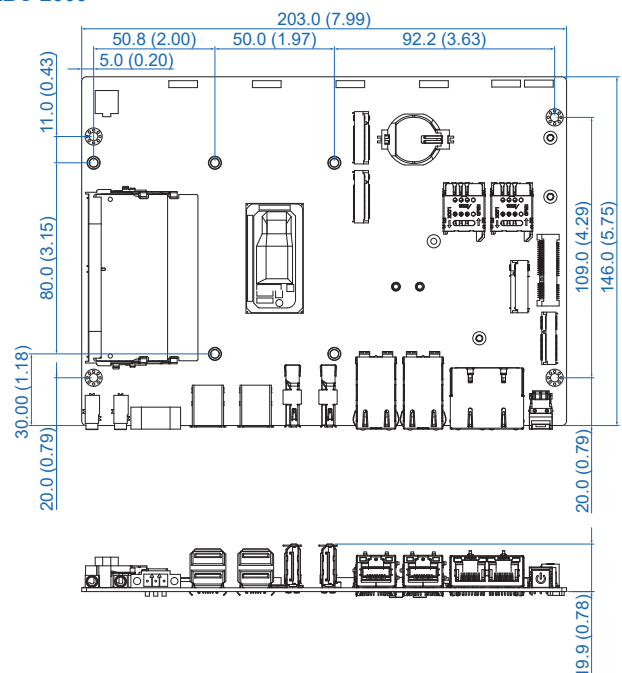
Optional Accessories

H_Sink	Heat Sink for EXBC-2000 Series
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Dimensions & Drawing

Unit : mm (inch)

EXBC-2000



EXBC-2000 with Heat Sink

