

EPC-C301

Intel® 8th.Gen. Core Processor i7/i5 Fanless Embedded barebone system

Preliminary



Features

- Intel 8th. Gen. Core Processor with Quad/Dual Cores (i7/i5), TDP 15W
- Semi-Industry Fanless slim system, Din Rail or Wall mount design
- HDMI + DP* (Support via MIO+) dual display
- 4 GbE, 4 USB3.1, 4 USB 2.0, CAN Bus, M.2 M-Key 2280 supports NVMe, DC-in 12-24V, M.2 E-key, M.2 B-key 3042, 1 Full size miniPCle
- 20 ~ 60 degree extend temperature operating
- iManager & SW APIs, WISE-PaaS/DeviceOn

Software APIs:



Utilities:



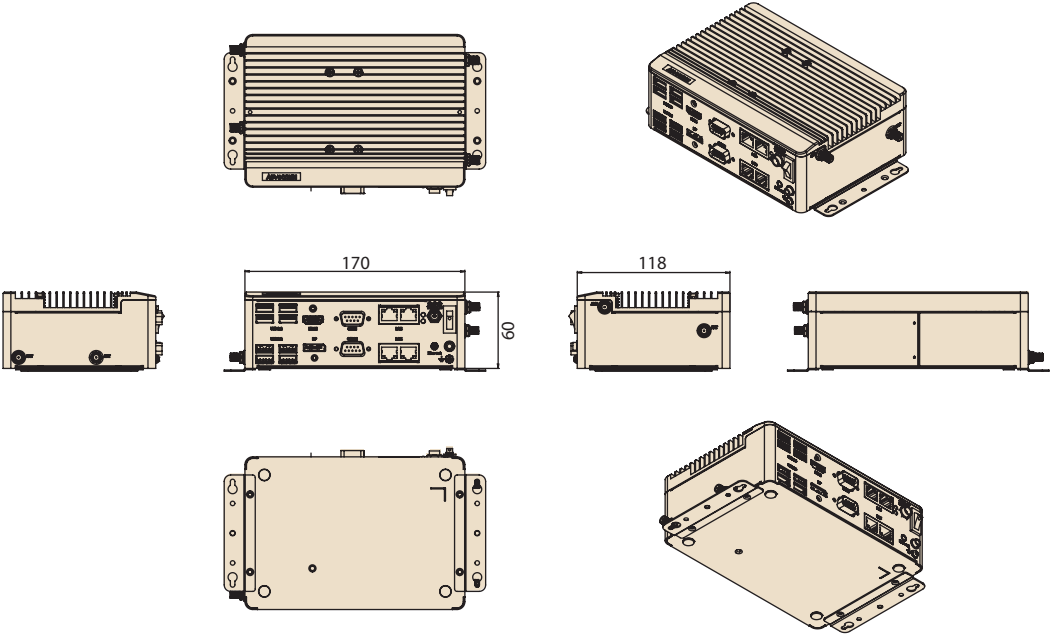
Specifications

Platform	Processor	i7-8665UE	i5-8365UE
	Max. Frequency	1.70 GHz	1.60 GHz
	Core/Tread	Quad-Core	Quad-Core
	LLC	2 MB	2 MB
	CPU TDP	15W	15W
	Chipset	Intel® WHL-U SoC integrated	
Memory	BIOS	AMI EFI 256Mbit	
	Technology	DDR4-2400MT/s	
	Max. Capacity	8/16 GB	
	Channel/Socket	Dual Channel/Dual Socket DDR4 (5.2mm) Dual Channel/Dual Socket DDR4 (9.2mm)	
Graphics	ECC Support	N/A	
	Controller	Intel® WHL-U SoC integrated	
	Max. Frequency	400 MHz	400 MHz
	Base Frequency	550 MHz	600 MHz
	Graphics Memory	TBD	
Display I/F	3D/HW Acceleration	DX12, OGL4.4 HW Encode: H.264, MPEG2 HW Decode: H.264, MPEG2	
	HDMI/DP	1 Port HDMI1.4 up to 4096x2160@30/24Hz 1 Port DP1.2 up to 4096x2306@60Hz	
Ethernet	Controller	LAN1: Intel i219, LAN2: Intel i210, LAN3: Intel i210, LAN 4: Intel i210	
	Speed	10/100/1000 Mbps	
Audio	Interface	Realtek ALC888, High Definition Audio, Line-out, Mic-in	
Internal expansion Slot	M.2 B-key	1 (USB for LTE)	
	Mini PCle	1 x Full size Mini PCle with SIM holder	
I/O Interface	COM	4, 2 x Full RS-232/422/48, 2 x RS-232	
	Digital I/O	1	
	CANBUS	1	
	USB	4 x USB 3.0, 4 x USB 2.0	
	GPIO	16-bit general purpose input output I/O	
	Front Panel Control	Power-on	
Power Requirement	Power Voltage	12-24V DC	
	Power input Type	Phoenix DC plug in	
	Consumption	TBD	
Storage	SSD	SQF-SM8M4-128G-SBE 128GB	
	eMMC	Default 32GB, up to 64GB	
Mechanical	Construction	Aluminum housing	
	Mounting	Din-Rail mounting/ Wall-mounting/VESA Mounting	
	Dimension	170 x 130 x 59 mm	
Environment	Operating temperature	With extended temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s air flow	
	Storage Temperature	- 40 ~ 85 °C (-40 ~ 185 °F)	
	Relative Humidity	Relative Humidity 95% @ 40 °C (non-condensi	
	EMC	CE/FCC Class B, CCC, BSMI	
	Safety Certification	UL, CCC, BSMI	

*Note: Support by request

Dimensions

Unit: mm



Ordering Information

Part Number	CPU	Max. Frequency	Core	Storage	HDDL Card	Operating Temp
TBD	i7-8665UE	1.70 GHz	4	16GB (Dual Channel)	Yes	-20 ~ 60 degree
TBD	i7-8665UE	1.70 GHz	4	16GB (Dual Channel)	Yes	-20 ~ 60 degree
TBD	i5-8365UE	1.60 GHz	2	8GB (Single Channel)	Yes	-20 ~ 60 degree
TBD	i5-8365UE	1.60 GHz	2	8GB (Single Channel)	No	-20 ~ 60 degree

Packing List

Part No.	Description	Quantity
	EPC-C301	1
	Startup Manual	1
	1 x China RoHS	1

Embedded OS/API

Embedded OS/API	Part No.	Description
WIN10	TBD	
Software API		iManager 3.0

Optional Accessories

Part No.	Description
TBD	Adapter 100-240V 60W 12V 5A W/O PFC