



iManager Fanless Embedded System Owner's Manual

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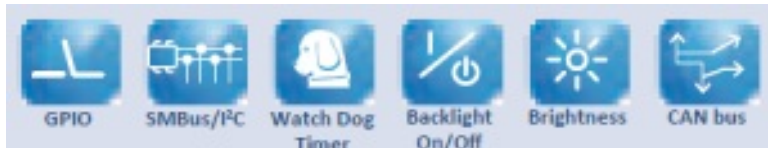
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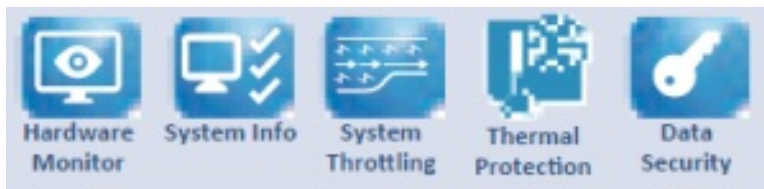
Features

- 8th Gen. Intel Core i7-8665UE/i5-8365UE Quad Core
- Dual Display HDMI + DP, up to 4K2K
- 4 x GbE, 8 x USB3.0/2.0, 4 x UART, 2 x CANBus
- 4 Expansion: M.2 E-Key 2230, M-Key 2280, B-Key 3042, F/S mPCIe
- DC-in 12V, Wall Mount & DIN Rail
- iManager3.0 & SW APIs, WISE-PaaS/Device On

Software APIs:



Software APIs:



Specifications

Platform	Processor Base Frequency Max. Frequency Core/Tread LLC CPU TDP Chipset BIOS	i7-8665UE 1.70 GHz 4.40 GHz 4/8 8MB 15W Intel® WHL-U SoC integrated AMI UEFI 256Mbit	i5-8365UE 1.60 GHz 4.10 GHz 4/8 6MB 15W
Memory	Technology Max. Capacity Channel/Socket ECC Support	DDR4-2400MT/s 32GB Dual Channels / 2 Sockets N/A	
Graphics	Controller 3D/HW Acceleration	Integrated Intel® UHD Graphics 620 DX12, OGL4.4 HW Encode: H.264, MPEG2 HW Decode: H.264, MPEG2	
Storage	SSD	M.2 2280 SATA SSD or NVMe SSD (default bundled with SQF- SM8M4-128G-SBE)	
Display I/O	HDMI/DP	HDMI1.4 up to 4096×2160@30/24Hz DP1.2 up to 4096×2306@60Hz (Note: not support Audio stream & Hot-plug & HDCP)	
Ethernet	Controller Speed	HDMI1.4 up to 4096×2160@30/24Hz DP1.2 up to 4096×2306@60Hz (Note: not support Audio stream & Hot-plug & HDCP)	

Ethernet	Controller Speed	LAN1: Intel i219, LAN2: Intel i210, LAN3: Intel i210, LAN4: Intel i210 10/100/1000 Mbps
Audio	Audio Codec	Realtek ALC888, High Definition Audio, Line-out, Mic-in
Internal expansion Slot	M.2 3042 B-Key M.2 2230 E-Key M.2 2280 M-Key Full Size MiniPCle	1 1 1 (Default bundled with 128G SATA SSD) 1 (*Intel EVK SKU will default bundled with VEGA-330, Intel® Movidius™ Accelerator Card)
Front Panel	HDMI DP Gigal LAN USB 3.0 USB 2.0 MIC-In LINE-Out COM DC Jack SIM card Power Button	1 1 4 4 4 1 1 2 x Full RS-232/422/485 1 1 (Nano SIM) 1
Side Panel	Antenna COM CANBUS DIO	4 2 (1 x Full RS-232/422/485, 1 x RS-232) 2 Support CAN 2.0B at 1Mb/s 1
Miscellaneous	LED Indicators Switch Circular Cutouts	2 (Power LED , HDD LED) — —

Power Requirement	Power Voltage Power input Type Consumption	Vin: DC 12V $\pm$ 10%; RTC Battery: Lithium 3V/210mAH DC-Jack (only ATX mode) Idle: 6.683W; Max.: 65.591W
Mechanical	Construction Mounting Dimension	Aluminum housing Din-Rail mounting/ Wall-mounting 170 x 118 x 70 mm
Environment	Operating temperature Storage Temperature Relative Humidity	With extended temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s air flow without VEGA 330/ -20 ~ 50 °C with VEGA 330 -40 ~ 85 °C (-40 ~ 185 °F) 95% @ 40 °C (non-condensing)

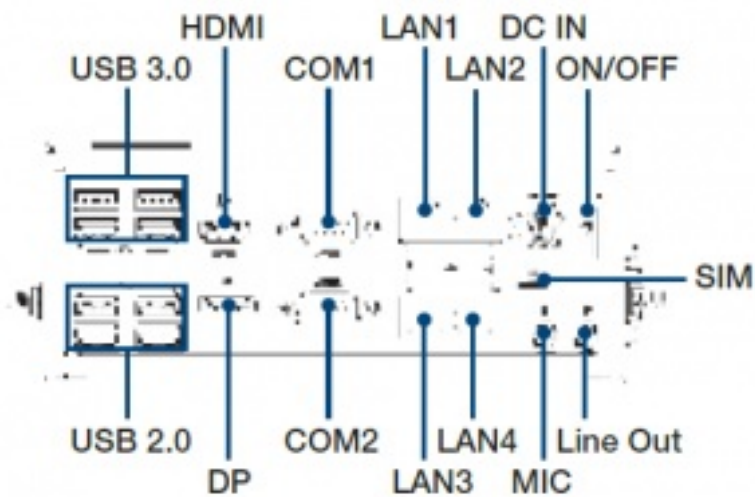
Regulation	EMC Safety	CE/FCC Class B, CCC, BSMI (*No RED certification) CB, UL
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*Note: Support by request

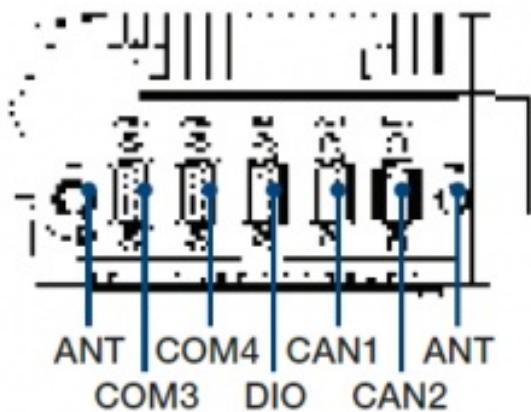
Dimensions



Front Panel External I/O Mechanical Layout/Drawing



Side Panel External I/O mechanical Layout/ Drawing



Ordering Information

Part Number	CPU	Max. Frequency	Cores	Memory	Storage	BI	Adaptation	AI Accelerator Card	Operating Temp
DPC-220H-PV-5701	i7-8650E	4.40 GHz	4	16GB (Dual Channel)	128G SATA SSD	Ubuntu v18.04	Yes	Yes (MCA-200)	-20 ~ 50 degree
DPC-220H-PV-5701	i7-8650E	4.40 GHz	4	16GB (Dual Channel)	128G SATA SSD	Win	No	No	-20 ~ 50 degree
DPC-220H-PV-5601	i5-8250E	4.10 GHz	4	8GB (Single Channel)	128G SATA SSD	Ubuntu v18.04	Yes	Yes (MCA-200)	-20 ~ 50 degree
DPC-220H-PV-5601	i5-8250E	4.10 GHz	4	8GB (Single Channel)	128G SATA SSD	Win	No	No	-20 ~ 50 degree

Packing List

Part No.	Description	Quantity
	EPC-C301	1
	Quick Start Guide (for EVK SKU only)	1
	China RoHS	1

Embedded OS/API

Embedded OS/API	Part No	Description
Win10 (High End)	20706WX9HS0068	img W10 19HL EPC-C301 64b 1809 ENU
Win10 (Value)	20706WX9VS0072	img W10 19VL EPC-C301 64b 1809 ENU
Ubuntu v18.04	36OSC301000101	Ubuntu V18.04 image w/ Intel OpenVINO Toolkit
Software API		SUSI 4.0/iManager 3.0
Software API		WISE-PaaS/DeviceOn

Optional Accessories

Part No.	Description
96PSA-A120W12W7-3	Adapter 100-240V 120W 12V, LOCKABLE DC JACK
1702002600-01	Power cable 3-pin 183 cm, USA type
1700018704	Power cable 3-pin 180 cm, UK type
1702002605	Power cable 3-pin 183 cm, Europe type
1700000237-01	Power cable 3-pin 183 cm, PSE type

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Documents / Resources

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References

- [A Advantech Co-Creating the Future of the IoT World](#)