

IES-54U5

Fanless Embedded controller with Intel 14th (MeteorLake-H) [Preliminary Release]



Features

- Intel® 14th Gen Core™ I Mobile CPU
- Wide operating temperature: -20~60C
- HDMI x 2
- 3 x LAN
- 4 x USB Type-A
- 2 x RS-232/422/485
- 2 x RS232 serial ports BOM Optional
- 1 x 2.5" HDD/SDD Tray
- 1 x NVMe M.2 Key 2280 , 1 x M.2 E Key 2230
- 9~36 VDC input power range

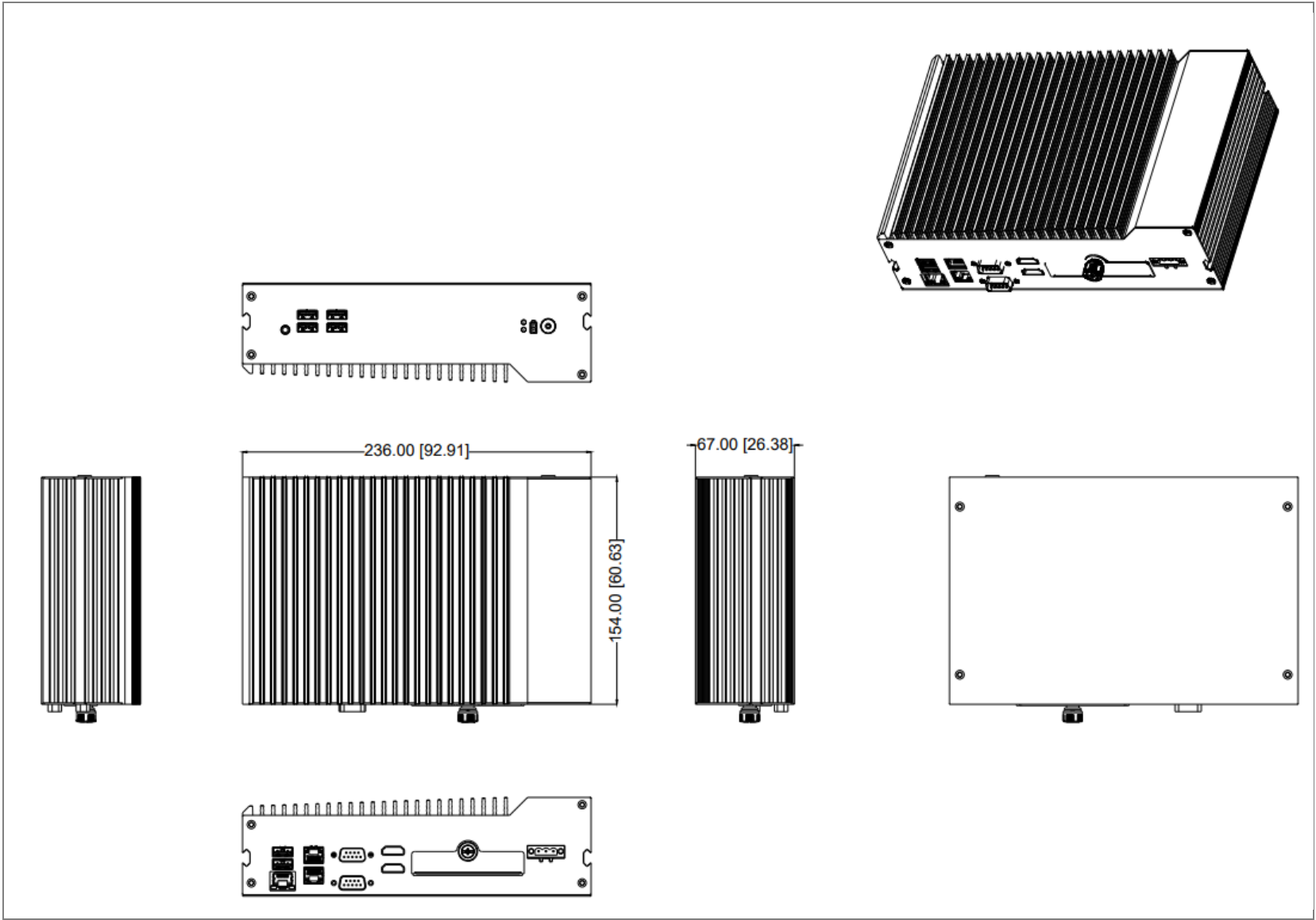
Specifications

System	
CPU/GPU	CPU Intel 14th Gen (formerly MeteorLake) FCBGA2049 Processor, TDP 28W. Ultra 5-125H (No iAMT)
	GPU Built-in Intel® Arc™ graphics, support - LightTracing /DirectX 12.1 / OpenGL 4.6 / OpenCL 3.0 /H.264 / H.265 - OpenVINO™, WindowsML, DirectML, ONNX RT, Web GPU
	Memory Dual Channel DDR5 262-pin SODIMM x2, max. up to 64GB
	Storage 2.5” SATA Drive Bay x1
Real time clock	Yes
Indicators	Power LED HDD Active LED
Operating System	Windows 11 PRO Linux Ubuntu 20.04 (Kernel 15.5 or above) Linux Ubuntu 22.04
Power Supply	
Power Requirement	DC-in 9V~36V
Power Consumption	TBD
MTBF (Hours)	TBD
Environmental and Mechanical	
Dimension	236 x 154 x 67 mm
Weight	TBD
Mouting/Installation	Wall mount kit (default)
Operating Temperature	-4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Certification	
Certification	TBD

Interface	
Serial Port	2 x RS-232/422/485
Ethernet	RJ45 LAN x 3 with LED Indicator Intel i226-LM x2 for 2.5GbE LAN, Co-lay with i226-IT, i226-V Intel i219-LM x1 for GbE LAN
USB	USB Type A x 4 USB3 x 4
DI/DO	8-bit DIO
Display	2 x HDMI Type A 1 x Audio for Mic-in / Line-out
Power Connector	DC 9~36V 3-pin Terminal Block Connector 1 x Remote Power On/Off 1 x Power button with power LED
Expansion Slot	M.2 2280 M-Key x 1 (For NVMe Storage) M.2 2230 E-Key x1 (for WiFi/Bluetooth) M.2 B Key 3052 x 1 (for 5G/LTE module) SATA-III x1 (6 Gb/s, for SATA Drive Bay) 4-Pin SATA Power Connector x1 (For SATA Drive Bay) TPM2.0 (Onboard)
Regulations	Planning
Carrier	Planning

Dimension

Unit: mm / inch



Ordering Information

Part Number	Packing List

Optional Accessories

Part Number / Item			