

EI-53

Compact Edge Intelligent System Intel 13th Gen. with WISE-DeviceOn

NEW



WISE-DeviceOn

SUSI API



Features

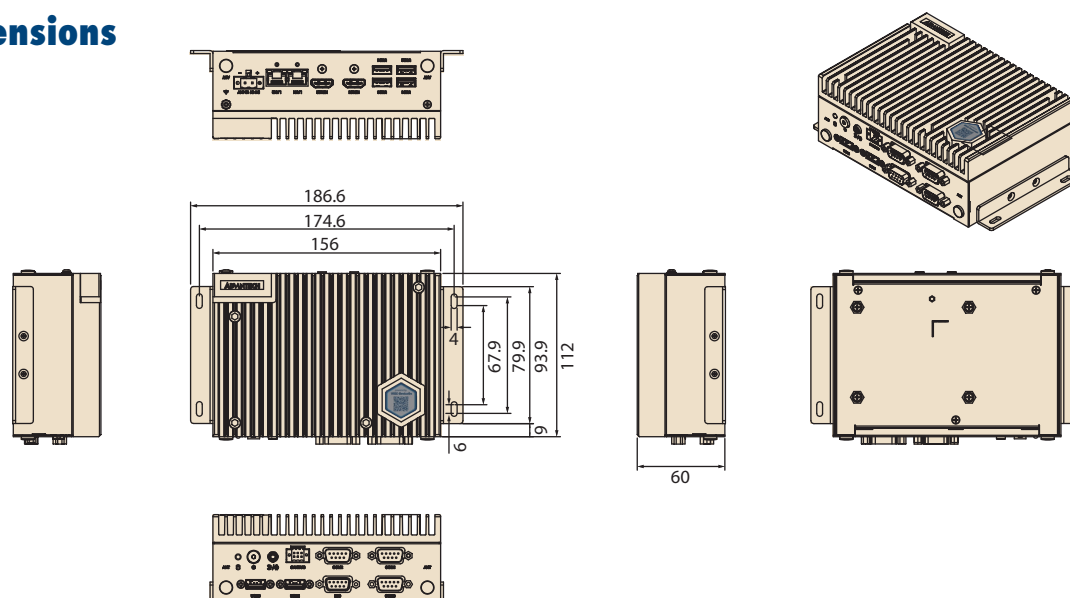
- Intel 13th Gen. Core i7/i5/Celeron up to 14 Watt with 10 Cores
- Compact Fanless 156 x 112 x 60mm dimensions
- Dual 4K lockable HDMI 2.0b, 4096x2160 resolution
- Vertical I/O: 3x COM/1x DIO/2x CANBus/2x LAN/6x USB
- Compatible with EWM-W165M203E Wi-Fi Module (NO RED)
- Compatible with AIW-357DK-G2U 5G Module (NO RED)
- WISE-DeviceOn for device management and remote control
- Support Robotics Development for Robotic Development SDK
- 5 year Long-Term Support (LTS) program for Ubuntu

Specifications

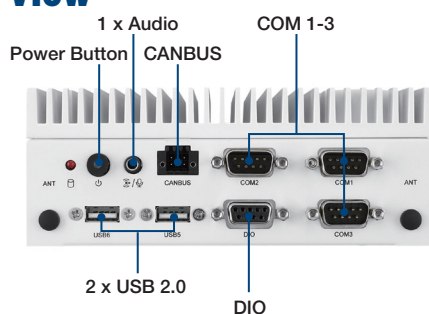
Name		EI-53-S7A1U	EI-53-S5A1U	EI-53-S0A1U
Processor System	CPU	Core i7-1365UE	Core i5-1345UE	Celeron U300E
	Core Number	10 core (2P+8E)	10 core (2P+8E)	5 core (1P+4E)
	Frequency	1.7GHz	1.3GHz	1.1 GHz
	BIOS	AMI EFI 256Mbit		
Memory	Technology	Up to DDR5 5200 MHz		
	Capacity	Max. capacity 64GB		
	Socket	2x 262-pin SODIMM (no Support ECC)		
Graphics	Chipset	Intel® Iris® Xe Graphics eligible	Intel® Iris® Xe Graphics eligible	Intel® UHD Graphics for 13th Gen Intel® Processors
	Graphic Engine	Direct X 12.1, OpenGL 4.6 HW Encode: H.265/HEVC, H.264/AVC, VP9, SCC HW Decode: H.265/HEVC, H.264/AVC, VP9, SCC		
	HDMI	2x HDMI 2.0b: 4096x2160@60Hz, Dual Display		
Storage	SSD/M.2	2.5 inch SATA SSD M-Key 2280 (SATA, PCIe4 Gen.4 NVMe)		
I/O Interface	LAN1	10/100/1000 Mbps Intel i219 1GbE, support Wake On LAN		
	LAN2	100/1000/2500 Mbps Intel i226 2.5 GbE, support Wake On LAN		
	USB 2.0/USB 3.2	3/3		
	Audio	1 x Mic-in, Line-out, Realtek ALC888S HD Audio		
	COM	2 x RS-232/422/485 1x RS-485 (COM3)		
	DIO	DB9 8 bit, 1 port		
	CANBus	2x3 pin, 2 ports		
Expansion	M.2	1 x E-Key 2230 (PCIex1, USB2.0) 1 x B-Key 2242/3042/3052 w/ Nano SIM (PCIex1, USB 3.2) 1 x M-Key 2280 (SATA, PCIe4)		
Trusted Platform Module	TPM 2.0	SLB9670XQ2.0 (on board)		
Power Requirement	Power Input Voltage	12-24 V _{DC}		
	Power Type	ATX/AT mode (Default ATX)		
Power Consumption	Typical (OS idle mode)	17.44W	17.9W	18.15W
	Max. (Full loading)	41.67W	45.81W	43.62W
Physical Characteristics	Mounting	Wall Mounting/Din-Rail		
	Dimensions (W x H x D)	156 x 112 x 60 mm		
	Weight	1.3 Kg		
Environment	Operating Temperature	-20 ~ 60 °C (-4°~140°F), with 0.7m/s air flow		
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185°F)		
	Relative Humidity	95% @ 40 °C (non-condensing)		
	Vibration during Operation	3 Grms, IEC60068-2-64, random, 5~500 Hz, 1hr/axis (with Wall Mount)		
Software Support	Shock during Operation	30 G, IEC-60068-2-27, half sine, 11 ms duration (with Wall Mount)		
	Microsoft Windows	Windows 10 IoT 2021 LTSC 64bit / Windows 11 IoT 64bit		
Certification	Linux	Ubuntu Desktop 22.04 LTS 64bit		
	EMC	CE/FCC Class B, Heavy Industry 61000-6-4, 61000-6-2, CCC, BSMI		
	Safety	UL, CB, CCC		

Dimensions

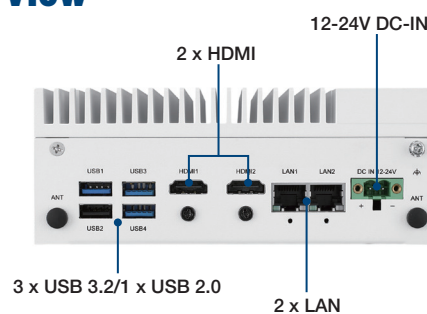
Unit: mm



Front View



Rear View



Ordering Information

Part No.	CPU	Memory	Storage	Display	LAN	USB	CANBus	DIO	RS-232/422/485	M.2	Power Input	Operating Temp.	Audio
EI-53-S7A1U	Intel Core i7-1365UE	UP to 64GB	Support 1x 2.5 inch SATA SSD/ 1 x M-Key 2280	2 x HDMI	2 (1GbE/2.5GbE)	3 x 3.2 3 x 2.0	2	1	3	E-key 2230 & B-Key 2242/3042/3052 & M-Key 2280	12-24 V _{DC}	-20 ~ 60 °C	Mic-in/Line-out
EI-53-S5A1U	Intel Core i5-1345UE	UP to 64GB											
EI-53-S0A1U	Intel Celeron U300E	UP to 64GB											

* System Made in Taiwan

* default 3xSKU have no SSD/RAM

Packing List

Part Number	Description
-	1 x EI-53 unit
1960052226N004	2 x Wallmount
2006EI5310	1 x User manual (Simplified Chinese)
36WSWPD0BUND11	1 x WISE-DeviceOn Package
1652000099	1x Phoenix connector counterpart
1652008233-01	1x Canbus counterpart

Optional Items

Part Number	Description
XARK-ADP-90MDH	90W Power Adaptor (19V DC in)
1700001524	Power Cable 3-pin 180cm, USA type
170203183C	Power Cable 3-pin 180cm, Europe type
170203180A	Power Cable 3-pin 180cm, UK type
1700008921	Power Cable 3-pin PSE Mark 183cm
AMK-A0048	Thermal kit for 5G and NVME
AMK-R006E	DIN-Rail Mounting for EI-53

Embedded OS

Part Number	Description
20706WX1HS0066	Windows 10 IoT Enterprise 2021 LTSC ENU 64bit for Core i7
20706WX1VS0066	Windows 10 IoT Enterprise 2021 LTSC ENU 64bit for Core i5
20706WX1ES0066	Windows 10 IoT Enterprise 2021 LTSC ENU 64bit for celeron
20706WXH1S0001	Windows 11 IoT Enterprise GAC ENU 64bit for Core i7
20706WXV1S0001	Windows 11 IoT Enterprise GAC ENU 64bit for Core i5
20706WXE1S0001	Windows 11 IoT Enterprise GAC ENU 64bit for Celeron
20706U22DS0028	Ubuntu Desktop 22.04 LTS ENU 64bit