

EC70A-TGU

11th Gen Intel® Core™
Fanless Robust Embedded System



KEY FEATURES



Tiger Lake

Intel® 11th Gen Core™ Tiger Lake UP3
Processor, TDP=15W



Triple Displays

2 HDMI (4K@30Hz) + 1 VGA (2K@60Hz)



On Board Memory

On board memory and 1 SO-DIMM DDR4



5G Support

Support M.2 B key 3042/3052 5G-NR module



Rich I/O

Up to 4 LAN, or 6 USB



PANEL



Front View



Rear View
SKU 1

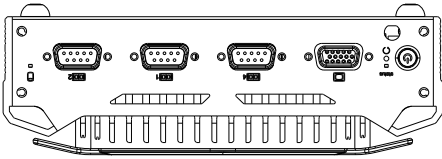


Rear View
SKU 2

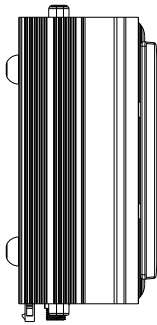


Rear View
SKU 3

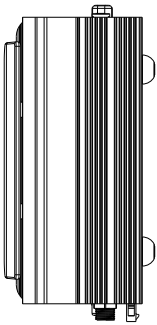
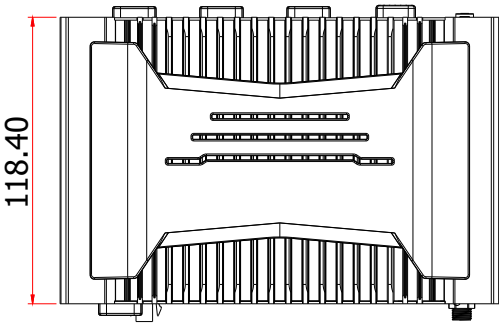
DIMENSIONS



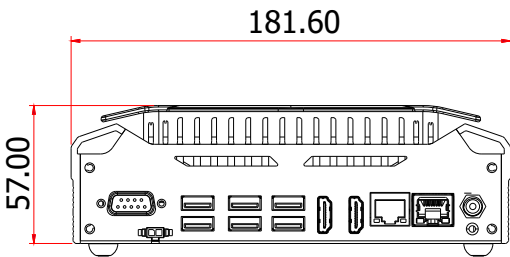
Front View



Left View

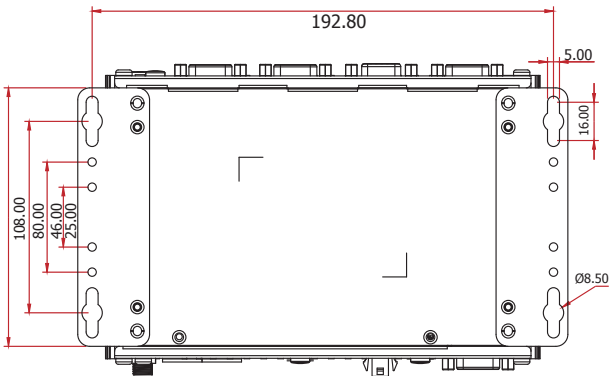
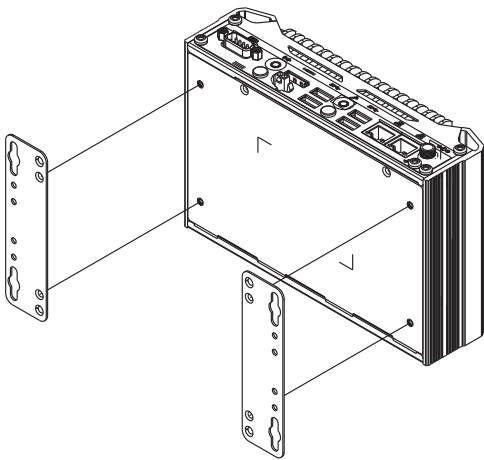


Right View



Rear View

WALL MOUNTING



SPECIFICATION

SYSTEM	Processor	11th Gen Intel® Core™ i7/i5/i3 Processors Intel Embedded Series Intel® Core™ i7-1185G7E Processor, 4C8T, 12M Cache, 1.8GHz (4.4GHz), 15W Intel® Core™ i5-1145G7E Processor, 4C8T, 8M Cache, 1.5GHz (4.1GHz), 15W Intel® Core™ i3-1115G4E Processor, 2C4T, 6M Cache, 2.2GHz (3.9GHz), 15W Intel Industrial Series Intel® Core™ i7-1185GRE Processor, 4C8T, 12M Cache, 1.8GHz (4.4GHz), 15W Intel® Core™ i5-1145GRE Processor, 4C8T, 8M Cache, 1.5GHz (4.1GHz), 15W Intel® Core™ i3-1115GRE Processor, 2C4T, 6M Cache, 2.2GHz (3.9GHz), 15W	
	Memory	8GB On-board memory & one SO-DIMM DDR4	
	BIOS	AMI SPI 256Mbit	
	Controller	Intel® Iris® Xe Graphics for i7/i5 Processors Intel® UHD Graphics for i3/Celeron Processors	
GRAPHICS	Feature	OpenGL 4.5, DirectX 12, OpenCL 2.1 HW Decode: WMV9, AVC/H264, JPEG/MJPEG, HEVC/H265, VP9, AV1 HW Encode: AVC/H264, JPEG, HEVC/H265, VP9	
	Display	2 x HDMI 1 x VGA	HDMI: resolution up to 4096x2160@30Hz VGA: resolution up to 1920x1200@60Hz
	Triple Displays	1 VGA + 2 HDMI	
	Internal	1 x M.2 2280 M key (PCIe x4)	
STORAGE	Interface	1 x M.2 2280 M key (PCIe x4) 1 x M.2 3042/3052 B key (USB3.1) 1 x M.2 2230 E Key (PCIe/USB2.0)	
EXPANSION	Controller	(SKU 1) 1 x Intel® I210IT 1 x Intel® I225IT (SKU 2) 2 x Intel® I210IT 1 x Intel® I225IT (SKU 3) 2 x Intel® I210IT, 1 x LAN7500i 1 x Intel® I225IT	
	Indicators	1 x Power LED 1 x HDD LED	
	Serial	2 x RS-232/422/485 (DB-9, COM 1~2) 1 x RS232 (DB9, COM 4)	
	Display	1 x VGA	
FRONT I/O	Buttons	1 x Power button 1 x Reset button	
	Ethernet	(SKU1) 2 x GbE (RJ-45) (SKU2) 3 x GbE (RJ-45) (SKU3) 4 x GbE (RJ-45)	
	Serial	1 x RS-232 or DIO (DB-9, COM 3)	
	USB	(SKU 1) 6 x USB 3.1 (type A) (SKU 2) 4 x USB 3.1 (type A) (SKU 3) 2 x USB 3.1 (type A)	
REAR I/O	Display	2 x HDMI	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
POWER	Type	Wide range 9~36V	
	Connector	DC Jack	
OS SUPPORT	OS Support	Windows 10 IoT Linux OS (OpenVINO kit ready)	
ENVIRONMENT	Operating Temperature	-20 to 60°C (wide-temp SSD)	
	Storage Temperature	-20 to 85°C	
	Relative Humidity	5 to 95% RH (non-condensing)	
MECHANISM	Construction	Aluminum + Metal Aluminum	
	Mounting	Wall/VESA/DIN rail mount	
	Dimensions (W x H x D)	181.6mm x 57mm x 118.4mm	
	Weight	1.28 kg	
STANDARDS AND CERTIFICATIONS	Shock	Operating: IEC 60068-2-27 Test Ea: Shock Test Half-Sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)	
	Vibration	Operating: IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test Random, 1Grms @ 5~500 Hz, 30min Non-Operating: IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep Sine, 3Grms @ 10~500Hz, 30min	
	Certifications	CE, FCC Class A, UKCA, UL, CCC, RoHS	

ORDERING INFORMATION

Model Name	Part Number	CPU	Memory	COM	USB	Display	LAN	Power	TPM	
EC70A-TGU4062-C5E-8	750-EC70A2-000G	Celeron 6305E	8GB	4	6	2 HDMI, 1 VGA,	2	DC 9~36V input	TPM 2.0	F/G SYSTEM RoHS
EC70A-TGU4062-I3E-8	750-EC70A2-100G	i3-1115G4E			6		2			
EC70A-TGU4062-I5E-8	750-EC70A2-200G	i5-1145G7E			6		2			
EC70A-TGU4062-I7E-8	750-EC70A2-300G	i7-1185G7E			6		2			
EC70A-TGU4043-C5E-8	750-EC70A2-400G	Celeron 6305E			4		3			
EC70A-TGU4043-I3E-8	750-EC70A2-500G	i3-1115G4E			4		3			
EC70A-TGU4043-I5E-8	750-EC70A2-600G	i5-1145G7E			4		3			
EC70A-TGU4043-I7E-8	750-EC70A2-700G	i7-1185G7E			4		3			
EC70A-TGU4024-I7E-8	750-EC70A2-800G	i7-1185G7E			2		4			
EC70A-TGU4062-I7R-8	750-EC70A2-900G	i7-1185GRE			6		2			
EC70A-TGU4024-I5E8	750-EC70A2-A00G	i5-1145G7E			2		4			

PACKING LIST

• 1 EC70A-TGU system unit
• 3 M.2 slot slot screws
• 4 Foot screws & Rubber Foot
• 1 Grounding screw
• 1 Remote switch cable