

EPC-T4219 Thin 1U System

1U, Compact barebone System with Intel Alder Lake-N Processor



Features

- 1U THIN Compact design
- Single IO panel for default
- USB type-C support by SKU
- Rear SSD simple installation tray
- Thin barebone with multi-IO ports is suitable for variety of application environments with DC-in design
- Easy/ quick installation for additional peripherals
- Support Wall/VESA Kit

▪ Note: CE (No RED certification)

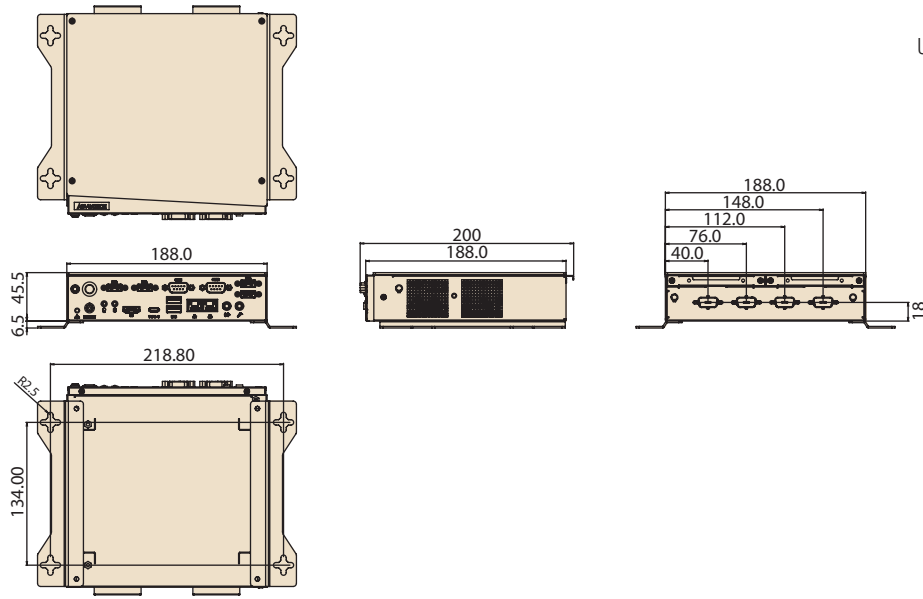
Specifications

Series		EPC-T4000 1U Fanless series				
Model Name		EPC-T4219				
Order Parts Number	PN	EPC-T42190A-00Y312	EPC-T42190W-00Y312	EPC-T42190W-00Y322	EPC-T42190W-00YN12	EPC-T42190W-00YN22
Processor System	System	Fan-based (0.7 m/s air flow)	Fanless (0.7 m/s air flow)	Fanless (0.7 m/s air flow)	Fanless (0.7 m/s air flow)	Fanless (0.7 m/s air flow)
	CPU / Chipset	Intel i3-N305	Intel i3-N305	Intel i3-N305	Intel N97	Intel N97
	CPU Max Turbo Frequency	3.80 GHz	3.80 GHz	3.80 GHz	3.60 GHz	3.60 GHz
	CPU Total Cores	8	8	8	4	4
	CPU Cache	6 MB Intel® Smart Cache	6 MB Intel® Smart Cache	6 MB Intel® Smart Cache	6 MB Intel® Smart Cache	6 MB Intel® Smart Cache
	TDP	15W	15W	15W	12W	12W
	BIOS	AMI 256 Mbit SPI				
Memory	Socket	1 x 260-pin SO-DIMM (Non-ECC)				
	Technology	DDR4 3200MHz SDRAM				
	Max. Capacity	16 GB (16 GB per SO-DIMM)				
Graphics	Chipset integrated	Intel® UHD Graphics				
	HDMI (FHD)	1 x HDMI support 1920x1080				
	DP (via USB Type-C)	1 x DP 1.4a, up to 4096x2304 @ 60 Hz	1 x DP 1.4a, up to 4096x2304 @ 60 Hz	NA	1 x DP 1.4a, up to 4096x2304 @ 60 Hz	NA
Ethernet	Interface	10/100/1000 Mbps				
	Lan IC	LAN1: Realtek 8111K with RJ-45 LAN2: Realtek 8111K with RJ-45				
	M.2 Module	E key for wireless module (Type: 2230)				
Storage	Slim 2.5" HDD	1 (7mm SSD)	0	0	0	0
	M.2	B key for storage and LTE module (only support PCIe1/SATA signal, Type: 2242/2280)				
Audio	Chipset	Realtek ALC888S, High Definition Audio(HD)				
Internal IO	GPIO	8 bit GPIO (optional on D-SUB location)				
Watchdog Timer	Interval	System reset; Programmable 1 ~ 255 sec or min				
Front Panel	Power Switch	1 x Powerpush button				
	LED Indicators	1 x Power LED 1 x HDD LED				
	DP (via USB Type-C)	1	1	NA	1	NA
	HDMI (FHD)	1				
	USB	4 x USB 2.0 2 x USB 3.2 (Gen2x1) 1 x USB type-C (Gen2x1)				
	Serial ports (COM)	2 with D-SUB 9-pin connector (2 x RS232)				
	LAN	2 with RJ-45				
	Audio	2 (Line-Out/MIC-In)				
	Power input with DC Jack	1				
	Antenna	0				
Rear Panel	Serial ports	4	4	upto 4 (Optional)	4	upto 4 (Optional)
	Antenna	2 (Optional)				
Power Requirements	Voltage Power	DC-12V input with 2.5mm power jack				
	Power Adapter	60W, 12V DC-in (Optional)				
Expansion Area Environment	Operating Temperature (0.7 m/s air flow)	0 ~ 45°C (32 ~ 114°F)		0 ~ 40°C (32 ~ 104°F)		
	Non-operating Temperature	-40 ~ 85°C (-40 ~ 185°F)				
	Humidity	85% @ 40° C, non-condensing				
	Vibration (5 ~5 00Hz)	3Grms (1 x 2.5" SSD / M.2 B-key SSD)				
Dimensions (W x H x D)		188 x 44.2 x 188 mm (7.4" x 1.74" x 7.4")				
Weight		2.1 Kg				
Certification		CE, FCC, 3C, BSMI				
Mounting bracket		Wall \ VESA mount (Optional)				

EPC-T4219 Thin 1U System

Dimensions

Unit: mm [inch]



Front View



Rear View

EPC-T42190W-00Y322
EPC-T42190W-00YN22



EPC-T42190A-00Y312
EPC-T42190W-00Y312
EPC-T42190W-00YN12



Ordering Information

Parts Number	Description	CPU	Front IO							Rear IO	Internal IO / Function				
			HDMI (FHD)	DP	GbE	USB Type-C	USB3.2	USB2.0	COM	COM	2.5" SSD w/ SATAIII	M.2 B key	M.2 E key	TPM	AMP
EPC-T42190A-00Y312	EPC-T4219 Barebone, Fan-based W/ i3-N305, 6xCOM+USB type-C	i3-N305	1	via USB Type-C	2	1	2	4	2	4	1	1	1	optional	optional
EPC-T42190W-00Y312	EPC-T4219 Barebone, Fanless W/ i3-N305, 6xCOM+USB type-C	i3-N305	1	via USB Type-C	2	1	2	4	2	4	no support	1	1	optional	optional
EPC-T42190W-00Y322	EPC-T4219 Barebone, Fanless W/ i3-N305, 2xCOM, W/o USB-C	i3-N305	1	0	2	0	2	4	2	(4)*	no support	1	1	optional	optional
EPC-T42190W-00YN12	EPC-T4219 Barebone, Fanless W/ N97, 6xCOM + USB type-C	N97	1	via USB Type-C	2	1	2	4	2	4	no support	1	1	optional	optional
EPC-T42190W-00YN22	EPC-T4219 Barebone, Fanless W/ N97, 2xCOM, W/o USB type-C	N97	1	0	2	0	2	4	2	(4)*	no support	1	1	optional	optional

(4)* : Default is 0, can up to 4 ports by T-PN
The GPIO cable can be assembled at any COM position.

Packing List

Part Number	Description	Quantity
2190000902	Warranty card	1
1992600110	Rubber foot	4
1930001241	Screws for Hard Disk/ spare	4
202KAKMC00	China RoHS	1
2006421800	Startup Manual	1

Accessories are mainly based on actual content.

Optional Accessories

Part Number	Description
AIMB-0BRK-WM02E	Wall mounting kit
EPC-BRKT-VM010	VESA mounting kit
96PSA-A60W12V1-4	ADP A/D 100-240V 60W 12V C14 DC PLUG 180°
1700035482-01	USB cable (2 ports), 25cm
1700034404-01	COM cable (1 ports), 50cm
1700034192-01	GPIO cable
1702002600	Power cord, 3-pin power cord (US)
1702002605	Power cord, 3-pin power cord (EU)
1702031801	Power cord, 3-pin power cord (UK)
1700000237	Power cord, 3-pin power cord with PSE (Japan)
1700031603-01	Power Cord, 3-pin power cord with BSMI (TW)