

# EPC-M5377R

## Smart Fan, Compact barebone system with Intel Raptor Lake Processor



### Features

- 13th Gen. Intel® Core™ Processor, TDP 28/15W
- Compact design with smart fan
- Triple displays with 1 x HDMI + 1 x DP + 1 x USB-C
- 3 x M.2: E-Key, B-Key and M-Key
- Multi-IO ports is suitable for variety of application environments with DC-in design



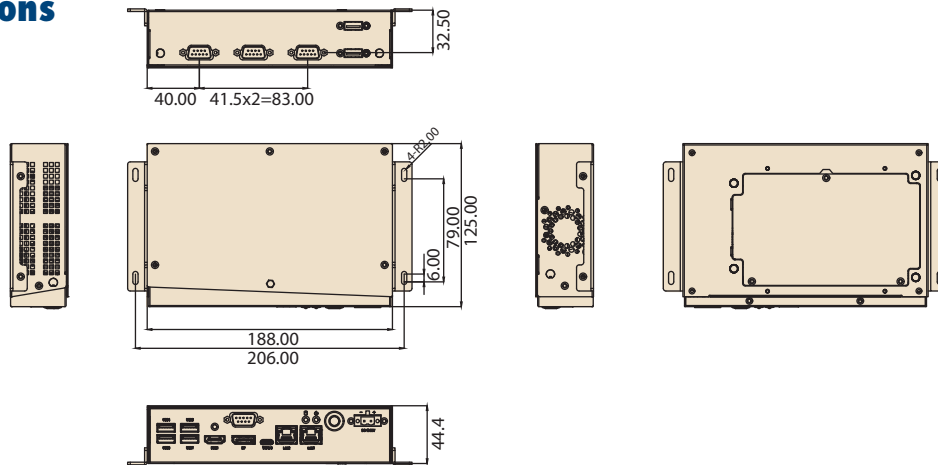
Note: CE(No RED certification)

### Specifications

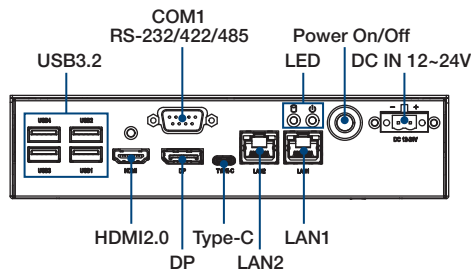
Series	EPC-M Fan-based Series		
Model Name	EPC-M5377R		
Order Parts Number	PN	EPC-M5377A-1911E	EPC-M5377A-1411E
Processor System	System	Fan-based	Fan-based
	CPU / Chipset	i7-1370PE	i5-1345UE
	CPU Max Turbo Frequency	4.80 GHz	4.60 GHz
	CPU Total Cores	14	10
	CPU Cache	24 MB Intel® Smart Cache	12 MB Intel® Smart Cache
	TDP	28W	15W
	BIOS	AMI UEFI 256Mbit	
Memory	Socket	Dual Channels / 2 Sockets	
	Technology	DDR5 4800MHz	
	Max. Capacity	64 GB	
Graphics	Chipset integrated	Intel® Iris® Xe Graphics	
	3D/HW Acceleration	DX12.1, OGL4.6, OCL3.0, HW Encode: H.265/HEVC, H.264, MPEG2, HW Decode: H.265	
Display	HDMI 2.0	1 x HDMI 2.0b, up to 4096 x 2160 x 24bpp@60Hz	
	DP	1 x DP1.4, up to 4096 x 2304 x 36bpp@60Hz	
	USB Type-C	1 x USB3.2 Gen2x1 10Gbps, support DisplayPort1.4 Alt. Mode	
	Multiple Display	Triple displays: HDMI/ DP/ USB-C (DP Alt. Mode)	
Ethernet	LAN1	10/100/1000 Mbps, Intel i219 with RJ-45	
	LAN2	10/100/1000/2500 Mbps, Intel i226 with RJ-45	
	M.2 Module	E key for wireless module (Type: 2230)	
Internal IO	Audio	Realtek ALC888S, Line-in/Line-out/MIC	
	GPIO	8 bit GPIO(Optional, MOQ30)	
	CANBus	2 x CANBus 2.0 (Option, MOQ30)	
Expansion	M.2 E-Key	1 x E-Key 2230 (PClex1, USB2.0) for WiFi/BT module	
	M.2 B-Key	1 x B-Key 3052 (PClex1, SATA, USB2.0) for storage and 5G module w/ Nano SIM (Default with 3052 for 5G module)	
	M.2 M-Key	1 x M-Key 2280 (PCIe Gen.4 x4) for NVMe SSD	
Other	Watchdog Timer	65536 level, 0-65535 sec	
	TPM 2.0	NPCT760AABYX FW7.2.3.1(On board)	
Front Panel	Power Switch	1 x Powerpush button	
	Serial ports	1x RS-232/422/485	
	LED Indicators	1 x Power LED 1 x HDD LED	
	DP	1 x DP1.4, up to 4096 x 2304 x 36bpp@60Hz	
	HDMI 2.0	1 x HDMI 2.0b, up to 4096 x 2160 x 24bpp@60Hz	
	USB	4 x USB 3.2 (Gen2x1) 1 x USB type-C (Gen2x1)	
Rear Panel	USB	2 x USB 2.0	
Side Panel	Serial ports	3 (1 x RS-232/422/485, 2 x RS-232)	
	Antenna	4 (Optional)	
Power Requirements	Power Type	ATX/AT	
	Voltage Power	DC-12-24V input	
	Power Adapter	120W DC-in (Optional)	
Power Consumption	Typical (Idle Consumption)	12V: 23.4W, 24V: 24.3W	12V: 17.6W, 24V: 19.3W
	Max	12V: 46.7W, 24V: 48.5W	12V: 25.6W, 24V: 27.5W
Expansion Area Environment	Operating Temperature	0 ~ 45°C (32 ~ 113°F)	
	Non-operating Temperature	-40 ~ 85°C (-40 ~ 185°F)	
	Humidity	85% @ 40° C, non-condensing	
	Vibration (5 ~5 00Hz)	3.5Grms	
Dimensions (W x H x D)	Dimensions (W x H x D)	188 x 125 x 44.4mm (7.4" x 4.9" x 1.7")	
Weight	Weight	1.1 Kg	
Certification	Certification	CE/FCC	
Mounting bracket	Mounting bracket	Wall	

## Dimensions

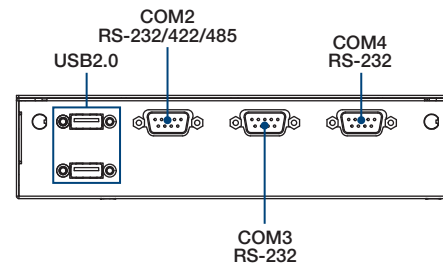
Unit: mm



### Front Panel External I/O Mechanical Layout/Drawing



### Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

Parts Number	Description	CPU	Front IO					Rear IO			M.2 B key	M.2 E key	M.2 M key
			HDMI	DP	LAN	USB Type-C	USB Type-A 3.2	COM	USB Type-A 2.0	COM			
EPC-M5377A-1911E	Intel Core i7-1370PE 1.9GHz W/ Fan Embedded SYS	i7-1370PE	1	1	2	1	4	1	2	3	1	1	1
EPC-M5377A-1411E	Intel Core i5-1345UE 1.4GHz W/ Fan Embedded SYS	i5-1345UE	1	1	2	1	4	1	2	3	1	1	1

## Packing List

Part No.	Description	Quantity
-	EPC-M5377R unit	1
-	Warranty card	1
1990039997S000	Rubber foot	4
1930002141	Screws for Hard Disk/ spare	4
2006377R00	User Manual	1

\* In case of any changes, the actual packaging shall prevail.

## Optional Accessories

Part No.	Description
96PSA-A120W24T2-4	ADP A/D 100-240V 120W 24V C14 CORD END 62368
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1700032693-11	Power Cord BSI 3P 10A 250V 183cm
1700000237	Power cable, 3-Pin 183cm, PSE type
1652000099	PLUG-IN BLOCK 2P 90D(F) DIP MC101-50002Y DECA
AMK-W005	AIR-020 wall mount kit
1700030508-01	F Cable D-SUB 9P(F)/1x10P-1.25 25cm EPC-C301
1700030518-01	F Cable D-SUB 9P(M)/1x3P-1.25 15cm EPC-C301
EPC-BRKM-VM010	EPC-M5377R VESA Mounting bracket kits

## Optional WIFI/4G/5G Item

Part No.	Description
1751000622-01	WLAN Ant#Main(L=150mm)
1751000880-01	WLAN Ant#Aux(L=450mm)
1751000633-01	4G Ant#Main(L=200mm)
1751000877-01	4G Ant#Aux(L=350mm)
1751000633-01	5G Ant#0(L=200mm)
1751000877-01	5G Ant#1(L=350mm)
1751000878-01	5G Ant#2(L=450mm)
1751000625-01	5G Ant#3(L=150mm)
EWM-W165M201E	WLAN module
AIW-356DQ-N01	5G module
AIW-356DQ-E01	5G module

## Embedded OS

Part No.	Description
20706WX1HS0155	img W10 21HL EPC-M5377R 64b 21H2 ENU
20706U24DS0047	img UbuntuD EPC-M5377R 64b 24.04 ENU