Manuals+ — User Manuals Simplified.

ASRock iEP-9030E Series Robust Edge AIot Platform Instruction Manual

-Industrial-

iEP-9030E Series   iEPF-9030S Series

Package Contents

iEP-9030E Series

iEPF-9030S Series

No.	Item	Quantity	
		iEPF-9030S Series	iEP-9030E Series
1	iEP(F)-9030 Series	1	1
2	Rubber Foot	4	4
3	#6-32 x 8 Screw for rubber foot	4	4
4	Desk Mount	2	2
5	M4x10 Screw for Desk Mount	8	8
6	M.2 + 5G Heatsink	1	1
7	#6-32 x 5 countersunk Screw for M.2 + 5G	3	3
8	VGA Card holder screw set (including M4 x 20 screw *4; spring washer *4; nut *4; press block *4)	1	NA
9	HDD Tray Key	2	2
10	CPU Grease	1	1
11	†ermal pad M.2 Key M	1	1
12	†ermal pad M.2 Key B	1	1
13	Terminal Block 1x4P ST 7.62m	1	1
14	Terminal Block 1x3P ST 5.0m	1	1
15	Terminal Block 1x10P ST 3.5m	2	2
16	M3x4 Screw for SSD/HDD	4	4
17	M2 Nut (w/Hex Head Bolt, H 3.55mm)	1	1
18	M2x2 Screw	3	3
19	Screw for wi card	2	2
20	4×4 EPE Bag	1	1
21	QIG	1	1

HƆMI® The terms HDMI® and HDMI High-De nition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Safety & Regulatory Information

⚠ Failure to use the included Power Adapter may violate regulatory compliance and may expose the user to safety hazards.
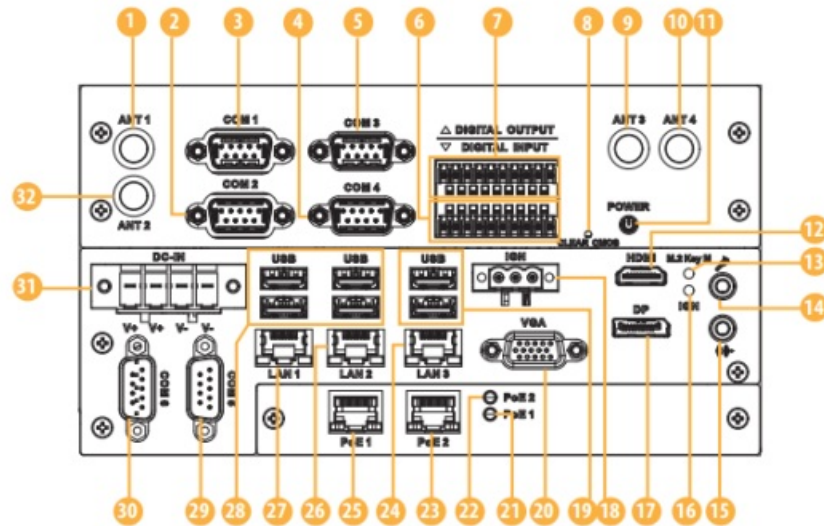
⚠ **BURN HAZARD**
Hot surface! Do not touch! Touching this surface could result in bodily injury.
To reduce risk, allow the surface to cool before touching

Product Overview

No	Description	No.	Description
1	Antenna Port 1	17	DisplayPort
2	Serial Port (COM 2)	18	Remote Power On/O Switch (IGN)
4	Serial Port (COM 1)	19	USB 3.2 Gen2x1 Ports (R680E SKU); USB 2.0 Ports (H610 SKU)
3	Serial Port (COM 4)	20	VGA Port
5	Serial Port (COM 3)	21	PoE1 Port Status LED (PoE 1)
6	Digital Input	22	PoE2 Port Status LED (PoE 2)
7	Digital Output	23	LAN RJ-45 PoE Port (PoE 2)
8	ClearCMOS Button	24	LAN RJ-45 Port (LAN 3) (R680E SKU)
9	Antenna Port 3	25	LAN RJ-45 PoE Port (PoE 1)
10	Antenna Port 4	26	LAN RJ-45 Port (LAN 2)
11	Power Switch	27	LAN RJ-45 Port (LAN 1, Support vPro)
12	HDMI	28	USB 3.2 Gen2x1 Ports
13	M.2 Slot (Key M) Status LED	29	Serial Port (COM 5)
14	Audio (Mic-in)	30	Serial Port (COM 6)
15	Audio (Line-out)	31	DC Power Input (DC-IN)
16	IGN Status LED	32	Antenna Port 2

4G LTE / 5G Module: How to Install the 4G LTE/5G Module to the M.2 Key B Slot (Optional)
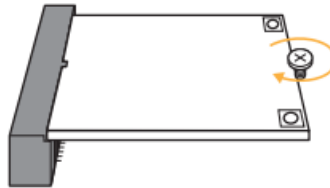
1. Locate the 4G LTE/5G module slot on the motherboard.
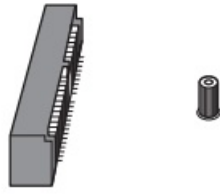
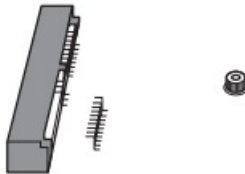2. Carefully insert the 4G LTE/5G Module into the slot at a 30-degree angle.
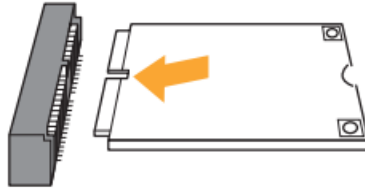
3. Tighten the screw to secure the 4G LTE/5G Module to the motherboard.
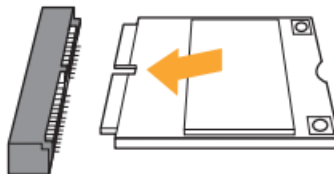
WiFi Module: How to Install the Wi-Fi Module (2230) to the M.2 Key E Slot (Optional)
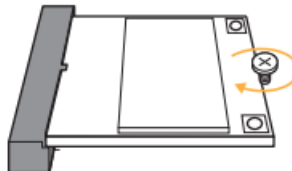
1. Locate the WiFi Module slot on the motherboard.

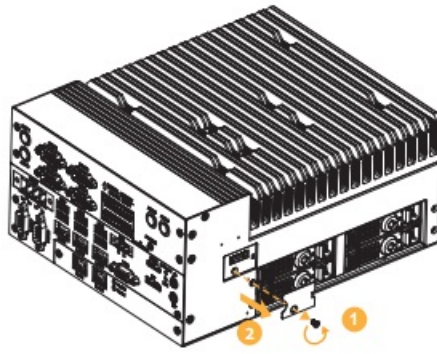2. Carefully insert the WiFi Module into the slot at a 30-degree angle.

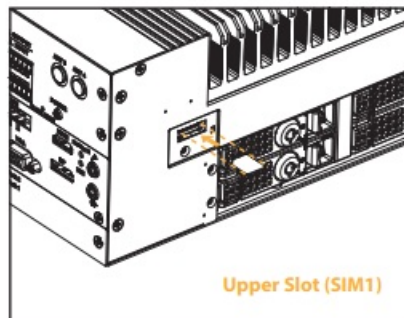3. Tighten the screw to secure the WiFi Module to the motherboard.

SIM Card: How to Install the SIM Card

1. Firstly release the screw and then remove the SIM card slot cover.

2. Insert a SIM card to the SIM card slot.

   SIM1 (Upper Slot): When inserting the SIM Card to the upper slot, make sure the notch on the SIM card is oriented with the gold contacts face down.


Upper Slot (SIM1)

SIM2 (Lower Slot):

When inserting the SIM Card to the lower slot, make sure the notch on the SIM card is oriented with the gold contacts face up.
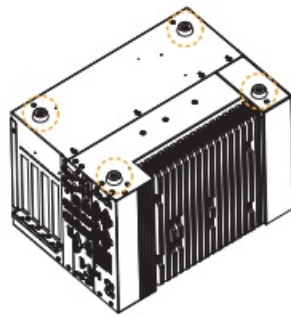

Lower Slot (SIM2)
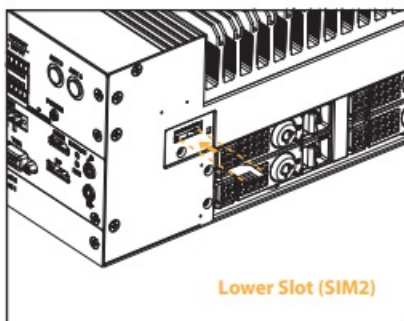
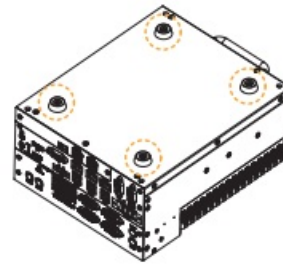**Desk Mounting**: How to Install the Desk Mounting Bracket – iEP(F)-9030 Series

1. Attach the two desk mount brackets to the iEP(F)-9030 Series and secure them with four screws.

iEPF-9030S Series   iEP-9030E Series
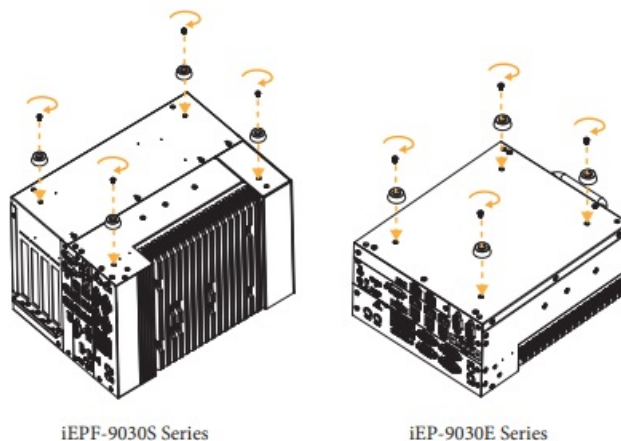
2. Then you can attach the iEP(F)-9030 Series to any horizontal surface.

iEPF-9030S Series   iEP-9030E Series

Dimension of the iEPF-9030S Series
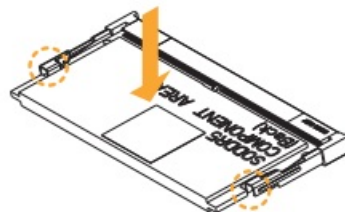with Desk Mounting Bracket Installed

237mm
162mm

299.42mm
246.11mm
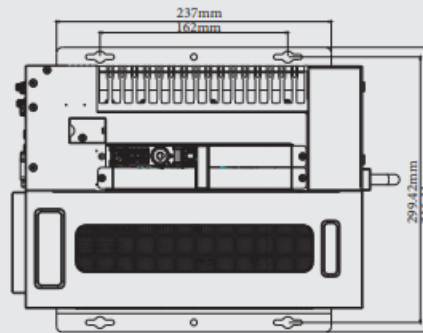
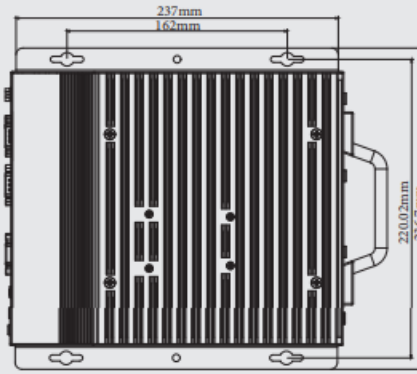**SO-DIMM Slot**: How to Install the Memory Module

1. Carefully insert the SO-DIMM memory module into the slot at a 30-degree angle.
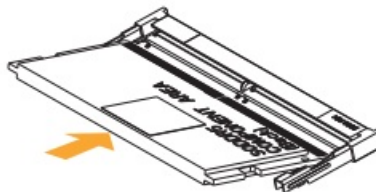
2. Push down until the module snaps into place.

Dimension of the iEP-9030E Series
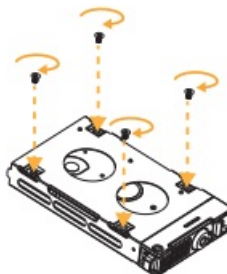with Desk Mounting Bracket Installed

237mm
162mm
220.02mm
236.7mm

Hard Drive: How to Install a 2.5" Hard Drive to the Hard Drive Tray (Default Qty is one piece.)

1. Place a 2.5″ HDD into the tray with the printed circuit board side facing down.Carefully align the mounting holes in the hard drive and the tray.
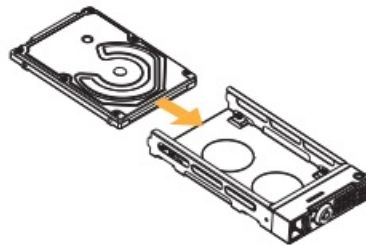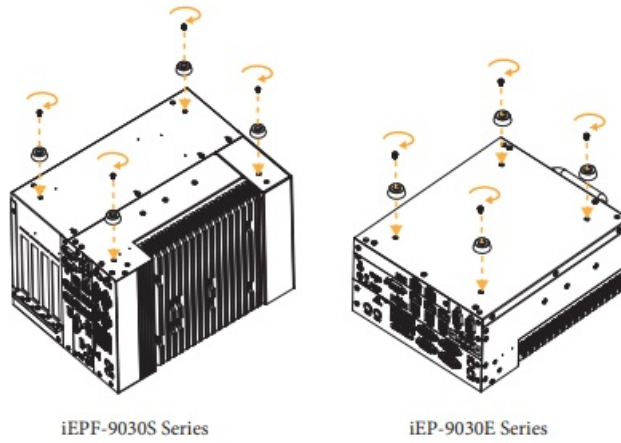

2. Secure the hard drive using four screws.

3. Slide the drive tray into the HDD bay until the drive is fully seated.
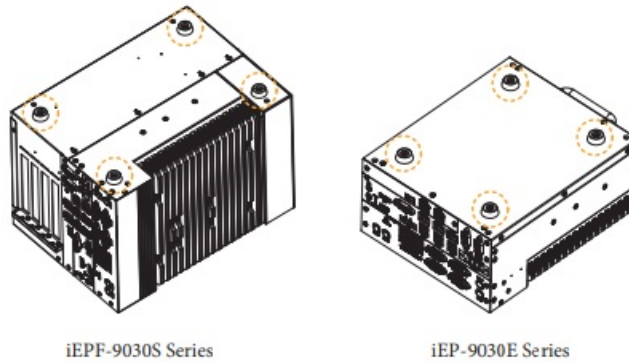4. Push in the locking lever to lock the HDD tray into place.
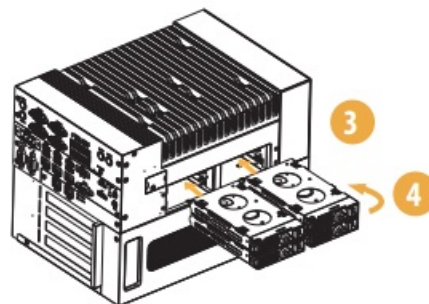
Rubber Foot: How to Install the Rubber Foot – iEP(F)-9030 Series

1. Attach four rubber foots to the iEP(F)-9030 Series and secure them with four screws.
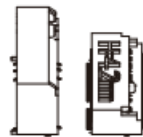
iEPF-9030S Series   iEP-9030E Series

2. Then you can put the iEP(F)-9030 Series onto any horizontal surface.

iEPF-9030S Series   iEP-9030E Series

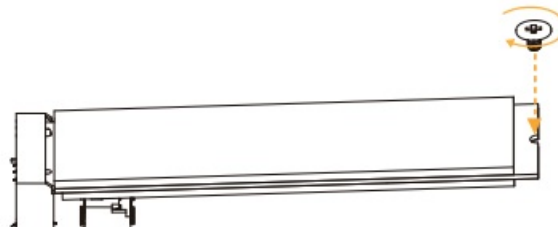M.2 SSD: How to Install the M.2 SSD

1. Locate the M.2 slot on the motherboard.

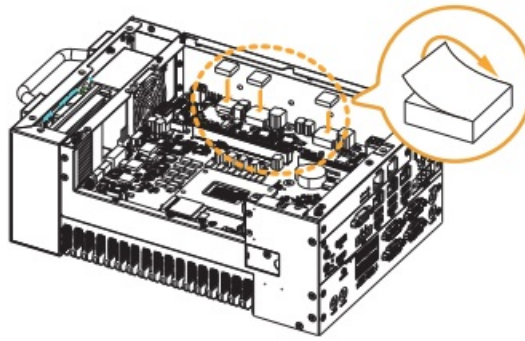2. Carefully insert the M.2 SSD into the the slot at a 30-degree angle.

3. Tighten the screw to secure the M.2 SSD to the motherboard.

M.2 SSD: How to install the M.2 Pad and Heatsink

1. Remove protective lms on both sides of the three thermal pads, and apply the pads onto each of the three chokes.
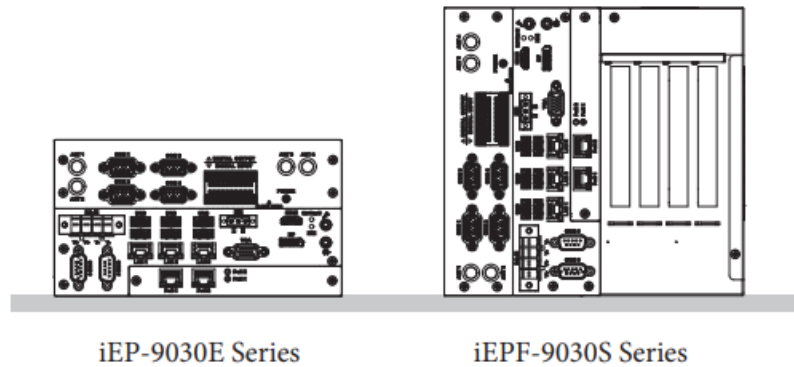
2. Align the M.2 heatsink to the three screw holes on the right panel, and secure it with three screws (#6-32 x 5 countersunk screws * 3pcs) from the outside of the chassis.
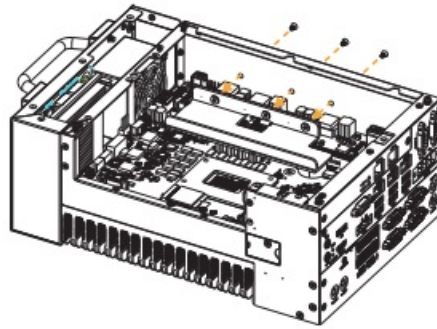
Position of the iEP(F)-9030E/S Series

The iEP(F)-9030E/S Series should be placed in vertical position only.

iEP-9030E Series   iEPF-9030S Series

Recommended Torque Table
Screw Driver Recommended Torque Value

Items Secured to Chassis	Value (Kgf-cm)
Chassis & Top Case/Heatsink	3.0 + / − 0.5
Rubber Foot	3.0 + / − 0.5
Desk Mount	3.0 + / − 0.5
2.5" Tray and 2.5" Device	3.0 + / − 0.5
CPU Socket	3.0 + / − 0.5
Items Secured to PCBA	Value (Kgf-cm)
Device: M.2 Module	2.0 + / − 0.5
Phoenix DC in & IGN	2.0 + / − 0.5
CPU Socket	3.0 + / − 0.5

Warranty Term

- Warranty of host of- iEP(F)-9030E/S Series super m icrocomputer (casing excluded): 2 years
- Our warranty does not cover the casing of the product, the metal frame and fastenings and screws, or packaging accessories.
- Data stored in the product may be lost as a result of the repair work or re-formatting of the hard drive disk. We does not provide data recovery services or data storage. Please back up your data regularly to protect the data and avoid loss. For details of our warranty terms, please refer to the individual warranty statement applicable to the district where your product was bought.

P/N: 15G06M133000AI

Documents / Resources

	ASRock iEP-9030E Series Robust Edge Alot Platform [pdf] Instruction Manual 9030E, 9030S, iEP-9030E Series Robust Edge AIoT Platform, iEP-9030E Series, Robust Edge AIoT Platform, Edge AIoT Platform, AIot Platform, Platform

References

- **User Manual**