

IPC920 NEW

Fanless Industrial System with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® H610E/R680E, and Front-access I/O



Features

- Intelligent power management:
 - Ignition
 - USB power on/off control
- Supports Intel® RAID (R680E)
- Easy expansion via flexible I/O window
- Supports connectors with pull-resistance design
- Optional DIN-rail, bookshelf and wall mount kit
- EN 61000-6-2 certified



- | | |
|--|----------------------------|
| 1. 1 x HDD/SSD access LED & 3 x user's LED | 8. 2 x HDD/SSD tray |
| 2. Power on/off button with LED | 9. 1 x Remote power switch |
| 3. 2 x 2.5GbE LAN (Intel® I226-V) | 10. Flexible I/O window |
| 4. 1 x GbE LAN (Intel® I219-LM) | 11. 2 x RS-232/422/485 |
| 5. 1 x HDMI, 1 x DisplayPort++ | 12. 1 x PCIe x16 slot |
| 6. 4 x USB 3.2 | 13. 3 x Antenna opening |
| 7. 3-pin terminal block for DC input | |

Specifications

Standard Color	Silver & black	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
Processor	CPU Level	14th/13th/12th gen Intel® Core™ processor, up to 65W*
System	Chipset	Intel® H610E/R680E
System Memory	2 x 262-pin DDR5 4800/4000 ECC/non-ECC SO-DIMM, up to 64GB	
System I/O	Ethernet	2 x RJ-45 2.5GbE LAN (Intel® I226-V) 1 x RJ-45 GbE LAN (Intel® I219-LM); with Intel® AMT (R680E)
	Serial	2 x RS-232 (4-wire)/422/485 (default RS-232), DB9 (by BIOS selection)
	USB	Intel® H610E: 2 x USB 3.2 Gen2 (10G) Type-A 2 x USB 3.2 Gen1 (5G) Type-A 1 x USB 2.0 180D Type-A (internal, up to 30mm) Intel® R680E: 4 x USB 3.2 Gen2 (10G) Type-A 1 x USB 2.0 180D Type-A (internal, up to 30mm)
	Display	1 x DisplayPort++ 1.2 with 4096 x 2160 resolution supported 1 x HDMI 1.4b with 4096 x 2160 resolution supported
	TPM	TPM 2.0
Expansion Interface	1 x Full-size PCI Express Mini Card socket (USB & PCIe interface) with SIM slot 1 x M.2 Key E 2230 socket 1 x PCIe x16 Gen3 slot (up to 150W power for add-in card)	
Storage	2 x 2.5" HDD/SSD bay (7/9.5 mm height) supporting RAID 0,1 (R680E) 1 x M.2 Key M 2280 socket (PCIe x4)	
System Indicators	1 x HDD/SSD access LED 3 x User's LED	

Specifications

Power Input and Ignition Control	Input: 18VDC-36VDC 1 x 3-pin terminal block for DC input, ignition control, and AT/ATX mode by BIOS setting 1 x Power on/off button with LED (default ATX) 1 x Remote power switch
Operating Temperature	-20°C to +60°C with 13th/12th gen Intel® Core™ processor and industrial wide temperature SSD, 0.7m/s air flow
Storage Temperature	-20°C to +80°C
Vibration	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis, IPC920-H-F1, IPC920-R-F1) IEC 60068-2-64 (with SSD: 1Grms STD, random, 5 to 500 Hz, 1 hr/axis, IPC920-H-F1E, IPC920-R-F1E)
Shock	IEC 60068-2-27 (with SSD: 50G, half sine, 11ms duration)
IP rating	IPC920-H-F1, IPC920-R-F1: IP40 with connector cables installed
Humidity	10% to 90%, non-condensing
Dimensions	IPC920-H-F1, IPC920-R-F1: 83.5 mm (3.29") x 192 mm (7.56") x 230 mm (9.06") IPC920-H-F1E, IPC920-R-F1E: 118.5 mm (4.67") x 192 mm (7.56") x 230 mm (9.06")
Weight (net/gross)	IPC920-H-F1, IPC920-R-F1: 3.2 kg/4.9 kg IPC920-H-F1E, IPC920-R-F1E: 3.7 kg/5.4 kg
Certifications	CE (EN 61000-6-4/EN 61000-6-2), FCC
OS Support	Windows 10, Windows 11, Windows 10 IoT, Windows 11 IoT, Linux OS

* Please refer to the user's manual for the system CPU support list and the system operating temperature list.

Ordering Information

System

IPC920-H-F1 (P/N: E26G920100)	Industrial fanless system with Intel® H610E, without Axiomtek logo
IPC920-H-F1E (P/N: E26G920102)	Industrial fanless system with Intel® H610E and 1 PCIe x16 slot, without Axiomtek logo
IPC920-R-F1 (P/N: E26G920101)	Industrial fanless system with Intel® R680E, without Axiomtek logo
IPC920-R-F1E (P/N: E26G920103)	Industrial fanless system with Intel® R680E, and 1 PCIe x16 slot, without Axiomtek logo

Optional Accessory

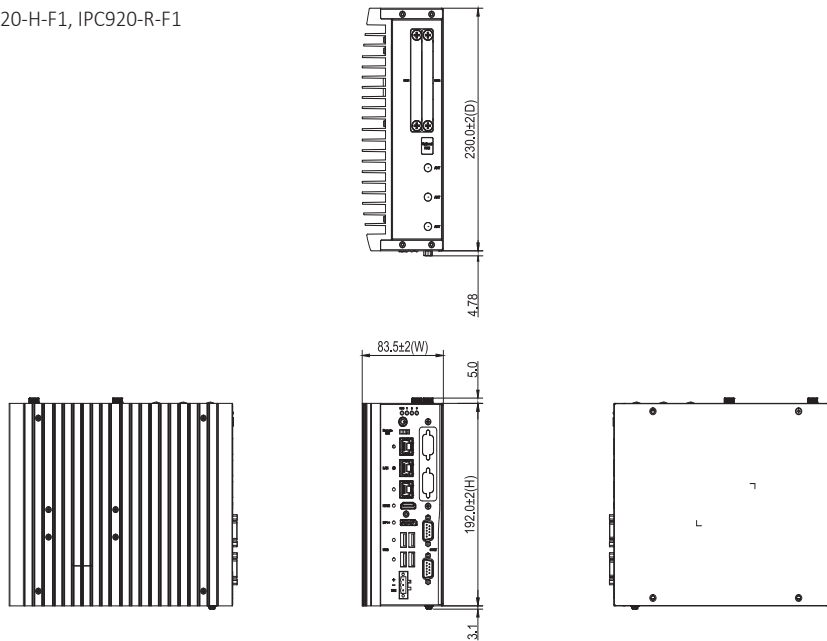
2.5" SATA HDD/SSD	
M.2 Key M 2280 NVMe SSD	
DDR5 4800/4000 MT/s ECC/non-ECC SO-DIMM, up to 64GB	
50906A24000E	230W wire adapter
509000001500	120W wire adapter
E29R127119	DIN-rail mounting kit
E29R127126	Wall mount kit
E29R127120	Bookshelf mounting kit (support by project)
E29R127121	Front I/O cable-lock kit

Optional Flexible I/O Modules

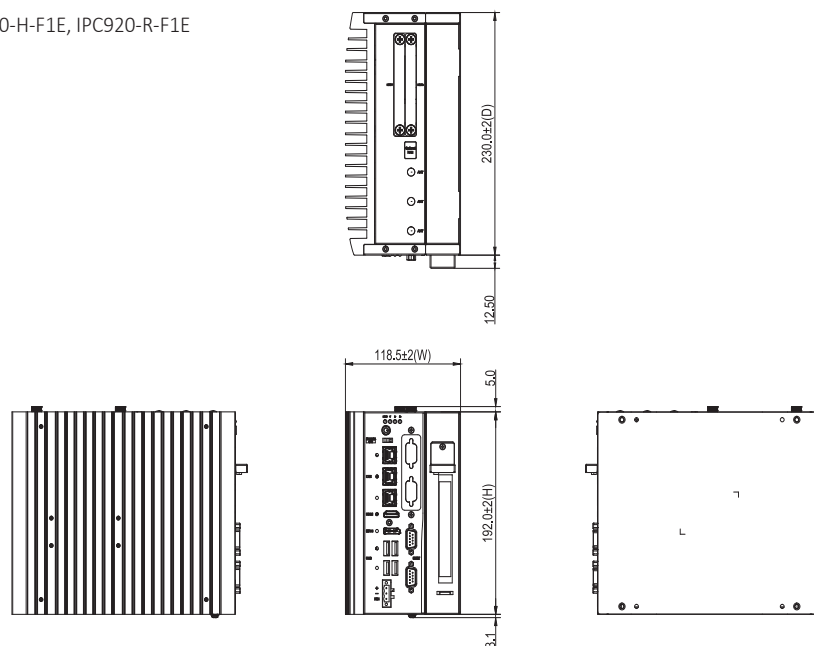
E39Q108100	2 x CAN bus PCIe Mini Card module (CAN2.0 A/B) with cable (PCIe Card module)
E392902107	1 x GbE LAN (Intel® I210-IT) PCIe Mini Card module with bracket kit (PCIe Mini Card module)
590000068400	8-bit programmable DIO wire cable
591000003100	2 x RS-232 (4-wire)/422/485 wire cable

Dimensions

IPC920-H-F1, IPC920-R-F1



IPC920-H-F1E, IPC920-R-F1E



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660