

# IPC950

Fanless Industrial System with Intel® Core™ Processor i7/i5 or Celeron® Processor and Front Access I/O



- |                            |                               |
|----------------------------|-------------------------------|
| 1. 4 x LED                 | 8. 8-CH DIO                   |
| 2. RS-232/422/485          | 9. Flexible system I/O window |
| 3. 3 x LAN                 | 10. 4 x USB 3.1 (10G)         |
| 4. Line-out                | 11. 2 x DisplayPort++         |
| 5. Remote power switch     | 12. 3-pin terminal block      |
| 6. Switch for power on/off | 13. Ground terminal           |
| 7. 3 x Antenna opening     | 14. 1 x PCIe x4 slot          |

## Features

- Intel® Core™ i7/i5 processor (Tiger Lake U), 15W
- Flexible I/O module for additional expansion capabilities
- M.2 Key E socket for wireless connection
- 2 DisplayPort++ connectors
- Supports TPM 2.0
- Supports Intel® AMT
- 1 PCIe x4 slot
- Optional mounting solutions: DIN-rail, bookshelf, and wall mount



## Specifications

Standard Color	Silver & black		
Construction	Aluminum extrusion heavy-duty cold-rolled steel		
Processor System	CPU Level	Intel® Core™ i7-1185G7E/i5-1145G7E & Intel® Celeron® 6305E processor (Tiger Lake U), 15W	
	Chipset	SoC integrated	
System Memory	2 x DDR4-3200 MT/s un-buffered SO-DIMM, up to 64GB		
System I/O	Ethernet	1 x 10/100/1000/2500 Mbps Ethernet (Intel® I225-LM) 2 x 10/100/1000 Mbps Ethernet (Intel® I210-AT)	
	Serial	1 x RS-232/422/485 (default RS-232, BIOS selection)	
	DIO	Programmable 8-CH DIO via 10-pin terminal block, TTL type	
	USB	4 x USB 3.1 (10G) Type A 1 x Internal USB 2.0 for license key usage, up to 20mm	
	Display	2 x DisplayPort++ 1.2 4K supporting resolutions up to 4096 x 2160 @60Hz	
	Audio	1 x Line-out	
	Others	1 x Switch for power on/off with LED (ATX) 1 x Remote switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch	
	TPM	TPM 2.0	
	Expansion Interface	M.2 Key E 2230 socket	
		SIM	1 x SIM slot
mPCIe		1 x Full-size PCI Express Mini Card slot (USB & PCIe interface)	
PCIe		1 x PCIe x4 slot for Axiomtek I/O card	
		<ul style="list-style-type: none"> <li>• AX92320: 2/4-port GigE PoE LAN PCI Express card (max. 100W PoE power output)</li> <li>• AX92321: 4-port/8-port USB 3.0 PCI Express card with 4 independent host controllers</li> <li>• AX92322: 2-port/4-port GbE LAN PCI Express card</li> <li>• AX92351: 32-CH isolated digital I/O with digital filter</li> </ul>	

## Specifications

Storage	1 x 2.5" HDD/SSD bay (7/9.5 mm height) 1 x M.2 Key B+M 2280 socket (SATA interface) for SSD
System Indicators	1 x CPU status LED 1 x Programmable (GPIO) LED 1 x HDD/SSD access LED 1 x Power LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-20°C to +50°C (-4°F to +122°F) with W.T. SSD
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	10% to 95% (non-condensing)
Dimensions	69.5 mm (2.73") (W) x 225 mm (8.85") (H) x 230 mm (9") (D)
Weight (net/gross)	4 kg/6 kg
Certifications	CE (EN 61000-6-4/EN 61000-6-2), FCC
OS Support	Win 10, Win 11, Win 10 IoT, Win 11 IoT, Linux OS

## Ordering Information

### System

IPC950-11i7-F5 (P/N: E26G950101)	Fanless industrial system with Intel® Core™ i7-1185G7E and blank flexible I/O; without Axiomtek logo
IPC950-11i5-F5 (P/N: E26G950102)	Fanless industrial system with Intel® Core™ i5-1145G7E and blank flexible I/O; without Axiomtek logo
IPC950-11i7-F5E1 (P/N: E26G950105)	Fanless industrial system with Intel® Core™ i7-1185G7E, blank flexible I/O, and 1 PCIe x4 slot; without Axiomtek logo

### Optional Flexible System I/O Module

AX93511 (P/N: E29R127111)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: E29R127112)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module (support by project)
AX93516 (P/N: E29R127113)	4 x RS-232/422/485 with isolated 2kVDC module (support by project)
AX93519 (P/N: E29R127114)	1 x 10/100/1000 Mbps Ethernet (Intel® I210-AT), 2 x RS-232/422/485, and 2 x USB 2.0 module

### Optional

2.5" SATA HDD/SSD	
M.2 Key B+M 2280 (SATA) SSD	
DDR4-3200 MT/s un-buffered SO-DIMM, up to 64GB	
E29R127106	DIN-rail mounting kit for IPC950 system
E29R127107	DIN-rail mounting kit for IPC950 with PCIe x4 slot system (support by project)
E29R127108	Bookshelf mounting kit for IPC950 system (support by project)
E29R127109	Bookshelf mounting kit for IPC950 with PCIe x4 slot system (support by project)
E29R127110	Wall mounting kit for IPC950 and IPC950 with PCIe x4 slot system
59492350700E	Power cable for AX92320
509000001500	Adaptor 24V/120W, wire only

---

## Power Protection

### DC Version

OVP (over voltage protection)  
OCP (over current protection)  
Reverse Protection

---

## Packing List

1 x IPC950 unit  
1 x Screw pack  
1 x Terminal block  
1 x Remote power switch cable  
3 x Antenna isolated washer

---

## Dimensions

