PEAI-9910

Embedded System with Intel® 12th/13th Generation Core™ i3/i5/i7/i9 based proprietary PICMG 1.3 SHB with DDR5 ECC SDRAM, HDMI, DP, Dual 5 Gigabit Ethernets, Audio and USB

EC | SATA 3.0 | USB 3.0 | Watch DOG | TPM | HDMI | DP

The PEAI-9910 builds on Intel® desktop R680E chipset and takes advantages of 12th/13th Generation Intel® Core™ i3/i5/i7/i9 processors technologies that can support dual DDR5 memory. Support two 5 Gigabit Ethernet ports, one M.2 M Key socket, one PCIe Gen5 x16 slot and one PCIe Gen4 x4 slot. The PEAI-9910 is an ideal platform with rich I/O and high resolution for POS, kiosk, digital signage and factory automation applications.

FEATURES

- Supports Intel®12th/13th Generation Core processors Family in LGA 1700 package
- Support up to 64GB maximum DDR5 4800 ECC SO-DIMM on two sockets
- Supports DP and HDMI ports
- High speed dual 5GbE Ethernet based on Marvell LAN chip, high bandwidth I/O interface
- Support two USB 3.2 Gen2 and four USB 3.2 Gen1 on rear I/O
- Support on board TPM2.0

ORDERING GUIDE

TBD	Please contact Portwell for more information.

13th GEN | i3 | i5 | i7 | i9

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HAILO Empowering Intelligence | RoHS | FC CE

System

M/B	Proprietary ROBO-9910G2AR-A
CPU	Intel®12th/13th Generation Core™ i3/i5/i7/i9 processors family in LGA1700 package
Chipset	Intel® R680E
BIOS	AMI uEFI BIOS
Memory	- Supports up to 64GB DDR5 4800 SDRAM on two SO-DIMM sockets - Supports ECC
Storage Devices	- Supports 2x 2.5inch SSD or 2x 3.5inch HDD Draw Box - Supports RAID 0, 1, 5, 10
Watchdog Timer	Programmable watchdog timer, time out period from 0.5 sec to 254.5 secs.
Hardware Monitoring	System monitor(Voltage,Fan Speed and Temperature)
Expansion Interface	- 1x PCIe x16 Gen5 slot - 1x PCIe x4 Gen4 slot - Supports 1x M.2 Type M 2280 with PCIex4 signal

External I/O

Audio	Line-Out & Mic-In
Display	- 1x HDMI 2.0, supports up to 4096 x 2160 @ 60 Hz - 1x DP 1.2, supports up to 4096 x 2160 @ 60 Hz
Ethernet	2x 5 Gigabit Ethernet ports (Marvell AQC114CS)
Serial Port	1x RS-232/422/485 port
USB	-2x USB 3.2(Gen2) ports -4x USB 3.2(Gen1) ports
GPIO	1x 8-bit Digital I/O port

Power Supply Unit

Power Input	AC to DC, AC 100~240V
Power Supply	650W

Environment

Operation Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 80°C

Mechanical

Dimension	415mm(L)*182mm(W)*280mm(H)
Weight	10 Kg