# 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. |
|---|---|

## 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<br>- Supports ECC |
| Storage Devices | - 4x SATAIII drives<br>- 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<br>- 1x PCIe x4 Gen4 slot<br>- 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<br>- 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<br>-4x USB 3.2(Gen1) ports |
| GPIO | 1x 8-bit Digital I/O port |

## Power Supply Unit

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|---|---|
| Power Input | AC to DC, AC 100~240V |

## Environment

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

## Mechanical

| | |
|---|---|
| Dimension | 415mm(L)*182mm(W)*280mm(H) |
| Weight | 8 Kg |

13th GEN · i3 · i5 · i7 · i9

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