

# PEAI-9910 Series

Edge AI Systems with Intel® 13th/14th  
Generation Core™ i3/i5/i7/i9  
Supporting NVIDIA PCIe GPU card



The PEA1-9910 series is built on Intel® desktop R680E chipset and take advantage of 13th/14th Generation Intel® Core™ i3/i5/i7/i9 processors. Supports NVIDIA® high performance GPU card. The PEA1-9910 series is an ideal platform with rich I/O and high resolution for edge AI computing and factory automation applications.

## FEATURES

- Supporting latest powerful NVIDIA RTX 4000 series PCIe cards
- Supports Intel®13th/14th Generation Core processors Family in LGA 1700 package
- Support up to 64GB maximum DDR5 4800 ECC SO-DIMM on two sockets
- Additional PCIe slots and M.2 socket for expansion
- High speed dual 5GbE Ethernet based on Marvell LAN chip, high bandwidth I/O interface
- Compatible with ASUS AIoT software package
  - AISVision
  - AISEHS

## ORDERING GUIDE

TBD	Please contact Portwell for more information.
-----	---



## System

M/B	Proprietary ROBO-9910G2AR-A
CPU	Intel®13th/14th 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 PCIe4 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	- PEA1-9910 650W - PEA1-9910-A 800W

## Environment

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

## Mechanical

Dimension	- PEA1-9910 415mm(L)*182mm(W)*280mm(H) - PEA1-9910-A 470mm(L)*205mm(W)*290mm(H)
Weight	10 Kg



**Portwell, Inc.** Headquarters  
No. 242, Bo'AI St., Shu-Lin Dist,  
New Taipei City 238, Taiwan  
Tel: +886-2-7731-8888  
Fax: +886-2-7731-9888  
E-mail: info@portwell.com.tw  
www.portwell.com.tw

**American Portwell**  
(Fremont, CA)  
Tel: +1-510-403-3399  
E-mail: info@portwell.com  
www.portwell.com

**Portwell UK Ltd.**  
Tel: +44(0)1235-750-760  
E-mail: info@portwell.eu  
www.portwell.eu

**Portwell Japan, Inc.**  
(Tokyo)  
Tel: +81-3-6902-9225  
E-mail: info@portwell.co.jp  
www.portwell.co.jp

**Portwell Japan, Inc.**  
(Osaka)  
Tel: +81-6-4807-7721  
E-mail: info@portwell.co.jp  
www.portwell.co.jp

**European Portwell**  
Tel: +31-252-620790  
E-mail: info@portwell.eu  
www.portwell.eu

**KIOSK Embedded Systems GmbH**  
Tel: +49-8152-3962-500  
E-mail: info@portwell.eu  
www.portwell.de

**Shanghai Portwell**  
Tel: +86-21-5771-2505  
E-mail: info@portwell.com.cn  
www.portwell.com.cn

**Portwell Korea, Inc.**  
Tel: +82-31-450-3043  
E-mail: info@portwell.co.kr  
www.portwell.co.kr

**Portwell India Technology Private Limited**  
Tel: +91-80-4168-4255  
E-mail: enquiry@portwell.in  
www.portwell.in

