

# PEAI-9910

Embedded System with 13<sup>th</sup>/12<sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 based proprietary SBC with DDR5 ECC SDRAM, PCIe Gen 5, HDMI, DP, Dual 5 Gigabit Ethernet, Audio and USB



The PEA1-9910 builds on Intel® desktop R680E chipset and 13<sup>th</sup>/12<sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 processors technologies that can support dual DDR5 memory. Featuring two 5 Gigabit Ethernet ports, one M.2 M Key socket, one PCIe Gen5 x16 slot and one PCIe Gen4 x4 slot, the PEA1-9910 is an ideal platform with rich I/O and high resolution graphics for POS, kiosk, digital signage and factory automation applications.

## FEATURES

- 13<sup>th</sup>/12<sup>th</sup> Generation Intel® Core™ processors Family in LGA 1700 package
- Supports 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

In Process

Please contact Portwell for more information.



Windows 10 IoT

intel partner Titanium

HAILO Empowering Intelligence



## System

M/B	Proprietary ROBO-9910G2AR-A
CPU	13 <sup>th</sup> /12 <sup>th</sup> Generation Intel® 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	650W

## Environment

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

## Mechanical

Dimension	415(L) x 182(W) x 280(H) mm
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)1235-750-780  
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.de  
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

\*All information provided is subject to change without notice. Last updated: June 29, 2023