

## Portwell

### **Company Profile**

vww.portwell.com.tw

**Portwell** is dedicated to providing innovative and high-quality AloT turnkey solutions to support our customer's business goals. In addition to our extensive and scalable list of products, we offer a wide range of technology services that are designed to help our customers develop and deploy their applications with ease so that they can achieve and expand their industry leadership. In 2017, Portwell Inc. was acquired by Posiflex Technology, Inc., a global leader in POS solution design and manufacturing. This has established Portwell as a major worldwide supplier of specialty computing application platforms.



Headquarter: Taipei, Taiwan

**Founded** : 1993

**OTC Listed:** 2001 ~ 2017

Capital: NT\$ 9.8B

**Consolidate Rev.**:  $\sim US$176M_{(2020)}/\sim US$189M_{(2021)}$ 

Employee: ~ 720 WW













### **Company Profile**

www.portwell.com.tw

# **Global Organizations**



www.portwell.com.tw

www.portwell.eu

## **Company Profile**

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# **Industrial Applications**

Single Board Computer, Standalone Board & Computer-On-Module

Other

30%

Surveillance System Gaming Machine Telecoms Aerospace & Defense

#### Medical

11%

MRI Machine CT/PET Scanner
Patient Monitoring Ultrasound
Fitness

#### **Transportation**

13%

Ticket Machine Train Control System Fleet Management Tolls & Traffic Management



#### Factory Automation

36%

Industrial PC PLC Remote I/O HMI Machine Control Robotics

## Retail

10%

Digital Signage Vending Machine Kiosk & ATM POS



Portwell



### **ROBO-8116G2AR Key Features**

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# **ROBO-8116G2AR Quick Guide**

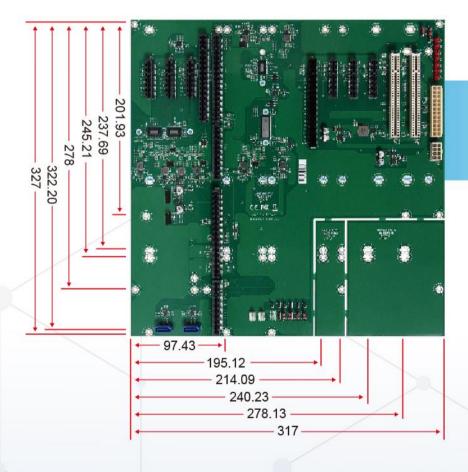




- Support M.2 Type M(2280) socket
- DVI-D, HDMI, DP display output
- Target Applications for Automation, Network and Medical
- From CPU: 1x PCle x16 or 2x PCle x8 by jumper / BIOS
- From PCH: 1x PCle x4 or 4x PCle x1 by different BIOS support



# **BP Support**



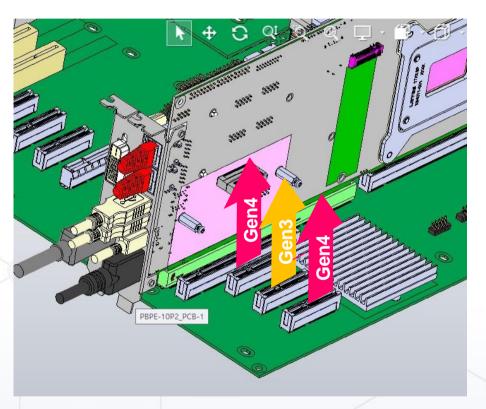
#### PBPE-10P2

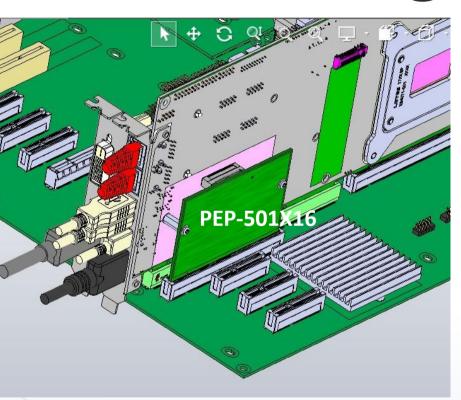
10-slot [PCle x16 (1), PCle x4 (3, x4 signal), PCle x4(3, x1 signal), PCl(2)]

- Fit for 4U Chassis
- Four USB ports
- Two SATA ports
- Support PCle Gen5 with ROBO-8116 series

- Support 1x PCle x16(Gen5) / 3x PCle x1(Gen4)
- Support 2x PCle x4(Gen4) / 1x PCle x4(Gen3) with PEP-501X16

# PEP-501X16 Mechanical Design



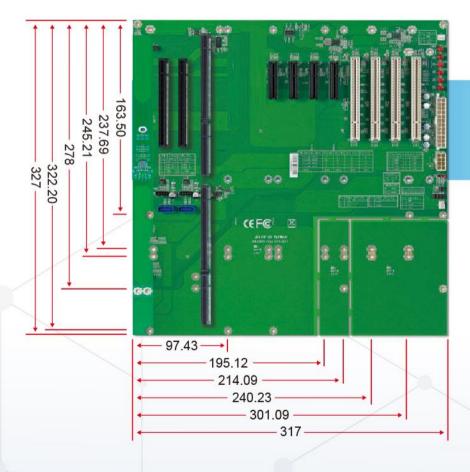


2x PCle x4(Gen4) / 1x PCle x4(Gen3) with PEP-501X16

J6	PCIe x4 Slot (Gen4, From CPU)
J7	PCIe x4 Slot (Gen3, From PCH)
J8	PCIe x4 Slot (Gen4, From PCH)



# **BP Support**



#### **PBPE-11P4**

11-slot [PCle x16 (2, 1x16 or 2x8 signal), PCle x4(4, x1 signal), PCl(4)]

- Fit for 4U Chassis
- Four USB ports
- Two SATA ports
- Support PCle Gen5 with ROBO-8116 series

- Support 1x PCle x16(Gen5) or 2x PCle x8(Gen5) select by BIOS
- 1x PCle x4 or 4x PCle x1 select by BIOS



#### **Performance**

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## 12<sup>th</sup> Gen - S Overview

### **Processor block diagram**



Embedded Dis



• 10nm Intel Core S Processer

















x16 PCle 3.0



**SATA 3.0** 





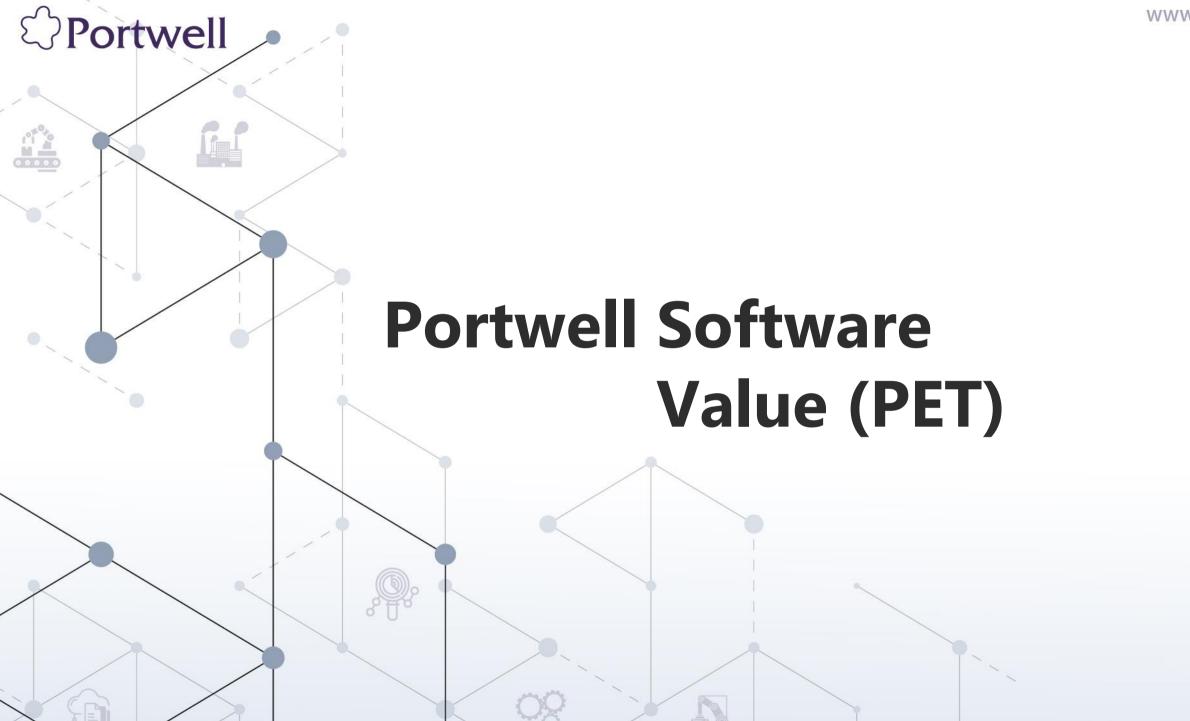


# Comparison

MODEL	ROBO-8116G2AR	ROBO-8115VG2AR
Form Factor	PICMG1.3	PICMG1.3
	Intel® Core TM i3/i5/i7/i9/ Pentium®/Celeron®	Intel® Xeon® W/ Core™ i3/i5/i7/i9/Pentium®/Celeron®

- 1. Support DDR5 4800 MHz SODIMM up to 64GB
- 2. Support PCle Gen5 performance
- 3. Support DVI-D / HDMI /DP display output on Bracket
- 4. Support Dual 2.5G Lan
- 5. Support USB3.2 Gen 2x2 Type Common Support USB3.

USB		6x USB3.2 Gen2 8x USB2.0	
		5x SATA III 1x M.2 Type M 2280	
GPIO	8 bit	8 bit	
Others	N/A	PS2/KB & MS	
Dimension	338.5 x 126.39mm	338.5 x 126.39mm	



## **Portwell Software Value - PET**

## **PET: Portwell Engineering Toolkit**

The name of the Portwell API(Application Programming Interface). A bridge to simplify and enhance H/W & S/W application implementation efficiency.

### What PET do?

- Hardware monitor
- Fan control



PET\_4.4.31



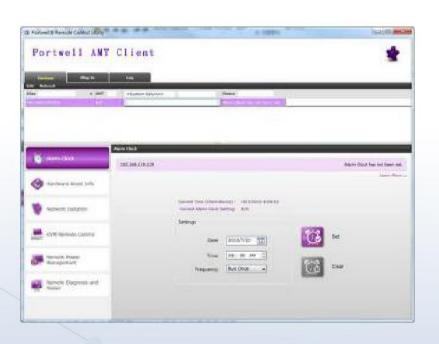
## **Portwell Software Value - PAC**

#### **PAC: Portwell AMT Client**

A management program which support the newest version of the Intel AMT (Active Management Technology ).

#### What PAC do?

- Remote power on/off
- Network isolation
- Remote Diagnosis and repair
  - reboot to bios
  - reboot to CDROM
  - boot to user selected OS image







# **Application-Automation**





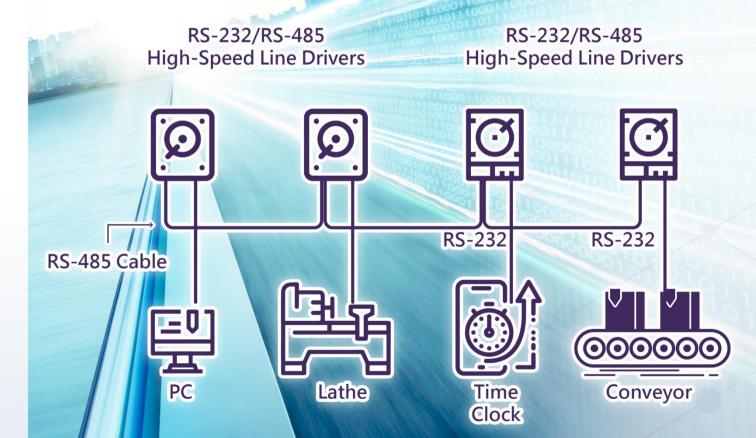
M.2 Type M

x16 PCle slot

**Dual Giga LAN** 

TCN/TCC

Extensibility





COM / x16 slot / 2.5G Lan(TSN for R680E only)



# **Support Page**





**Download Center** 

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  https://www.portwell.com.tw/
- Major Contacts

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Download Center

https://www.portwell.com.tw/support-center/download-center/



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