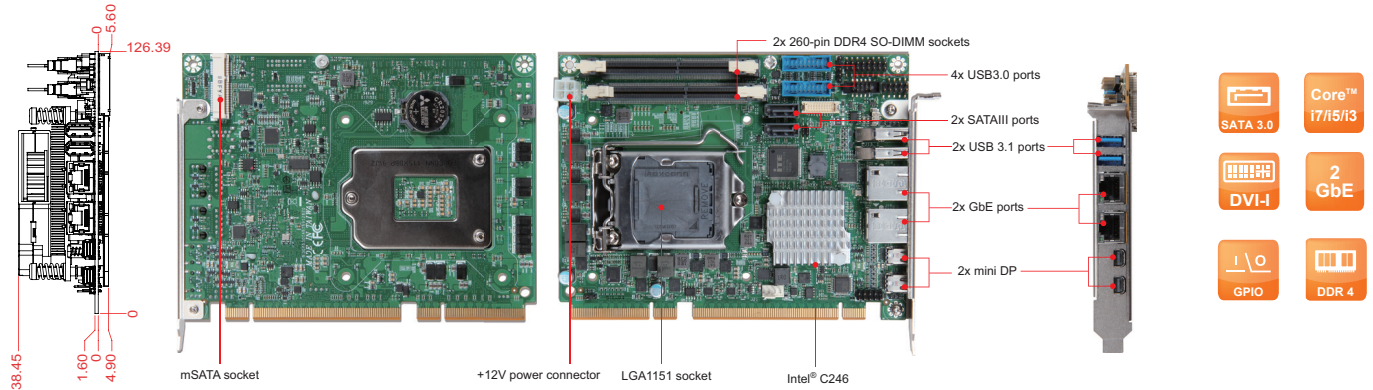


# ROBO-6912VG2AR

Intel® Core™ i3/i5/i7/Pentium® Celeron®/Xeon® E Family processor based on PICMG 1.3 half size SHB with DDR4 SO-DIMM, mini DP,DVI-D, Dual Gigabit Ethernet, SATAIII, mSATA, Audio, USB.



ROBO-6912VG2AR is based on Intel® C246 chipset to support both Intel® Xeon® and Core™ i3/i5/i7 processors. Built with flexible PCI express expansions, ROBO-6912VG2AR is suitable for Medical, Industrial automation, and Digital Signage application.

## FEATURES

- Support Intel® 8<sup>th</sup> Gen Coffee Lake-S processor in LGA1151
- Delivers up to 32GB maximum DDR4 2400 MT/s ECC SO-DIMM on two sockets
- High speed dual Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
- On-board two SATAIII ports, support RAID 0, 1

## ORDERING GUIDE

<b>AB1-3J42Z</b>	<b>(R).ROBO-6912VG2AR</b> PICMG 1.3(PCI-E+PCI).LGA1151. C246 PCH. IntelXeon/Core i3 processors.SHB.w/ DVI-D/miniDP*2/Dual GbE/Audio/USB 3.1/ COM
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## PACKING LIST

<b>Standard</b>	B8983650 Installation CD B8981980 PICMG SBC Handling and Installation Notice B6902932 SATA III cable
<b>Optional</b>	B6903090 USB 3.0 cable with bracket B6902230 USB port cable with bracket

## GENERAL

Processor	- Intel® Core™ i3/i5/i7 Pentium®/Celeron®/ Xeon® processors up to 3.4 GHz (35~65W) with Cache in LGA-1151 package
Chipset	Intel® C246
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	- Supports up to 32GB DDR4-2400MT/s SDRAM on two 260-pin ECC SO-DIMM sockets - Supports ECC
Storage Devices	- 2x SATAIII ports - 1x mSATA socket
Watchdog Timer	Programmable via S/W from 0.5 sec. to 255 sec
Hardware Monitoring	System monitor(Voltage,Fan Speed and Temperature)

## I/O INTERFACE

Expansion Interface	- 1x PCIe x16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 by jumper setting or BIOS (Gen3 up to 8.0 GT/s) - 1x PCIe x4 or 4x PCIe x1 by different BIOS support (Gen3 up to 8.0 GT/s)
Super I/O (Embedded Controller)	IT5121E-I
Audio	- Realtek ALC888S-VD2-GR HDA codec, 7.1 channels - one on-board audio pin header
Ethernet	- Intel® WGI219LM + WGI210AT Gigabit Ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - PCI Express x1 interface based on Gigabit Ethernet - Dual RJ-45 connector with two LED indicators - 1x RS-232/422/485 selectable by bios
Serial Port	- 1x RS-232/422/485 selectable by bios
USB	- 4x USB3.0 ports - 2x USB3.1 Gen 2 ports on bracket
Keyboard & Mouse	2x USB3.1 ports on bracket dedicated to keyboard & mouse
GPIO	N/A

## DISPLAY

Graphic Controller	Intel® Coffee-Lake-S processors integrated graphics engine
Display Interface	-- DVI-D on board: up to 1920x1600 @ 60Hz - mini DP: two ports on bracket up to 4096x2304 @ 60Hz

## Mechanical & Environment

Dimension	- 167.64mm(L) x 126.39mm(W), 6.6" (L) x 4.98"(W) - PCB: 12 Layers
Power Supply	- Typical: +12V, +5V - Support ATX mode
Environment	- Operation Temperature:0°C~60°C - Storage Temperature:-20°C~80°C - Relative Humidity:5~95%,non-condensing



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