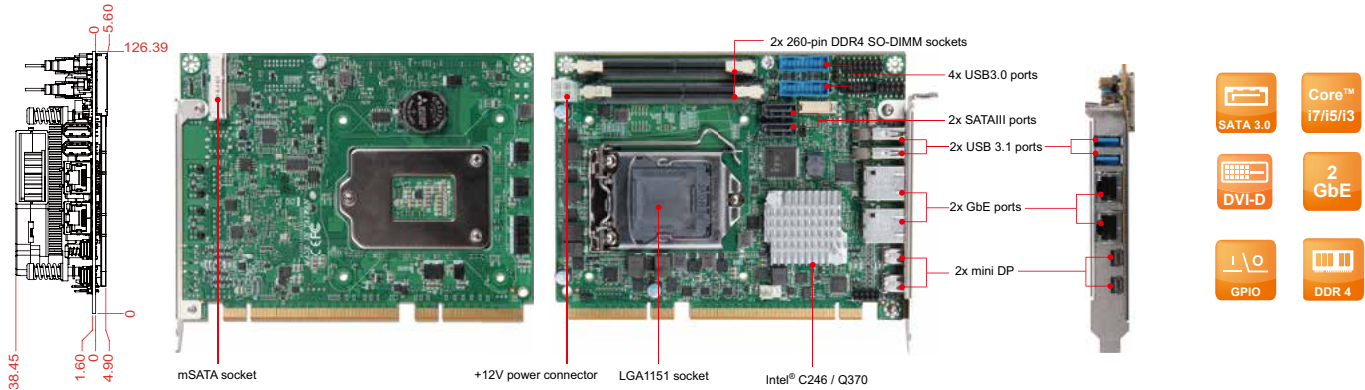


ROBO-6912VG2AR

Intel® 8th/9th Gen 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, SATA III, mSATA, Audio, USB.



ROBO-6912VG2AR is based on Intel® C246 or Q370 chipset to support Intel® 8th/9th Gen processors. Built with flexible PCI express expansions, ROBO-6912VG2AR is suitable for Medical, Industrial Automation, and Digital Signage applications.

FEATURES

- Intel® 8th/9th Gen Coffee Lake-S processor in LGA1151
- Delivers up to 64GB DDR4 2666 MT/s ECC SO-DIMM on two sockets
- High speed dual Gigabit Ethernet and high bandwidth I/O interface
- Rich I/O connections such as serial port, USB ports and SATA ports, supports RAID 0, 1, 5
- Supports on board TPM 2.0

ORDERING GUIDE

AB1-3J42Z	(R).ROBO-6912VG2AR PICMG 1.3(PCI-E+PCI). LGA1151. C246 PCH. Intel Xeon E processors. SHB. w/ DVI-D/miniDP*2/Dual GbE/Audio/USB 3.1/COM
AB1-3J43Z	(R).ROBO-6912VG2AR-Q370 PICMG 1.3(PCI-E+PCI). LGA1151. Q370 PCH. Intel Core/Pentium/Celeron processors. SHB. w/DVI-D/miniDP*2/Dual GbE/Audio/USB 3.1/COM

PACKING LIST

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

GENERAL

Processor	Intel® Xeon® E series / 8 th /9 th Gen Core™ i3/i5/i7/Pentium®/Celeron® processors up to 3.4 GHz (35~65W) with Cache in LGA 1151 package
Chipset	Intel® C246 / Q370 PCH
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	- Supports up to 64GB DDR4-2666 MT/s SDRAM on two 260-pin SO-DIMM sockets - Supports ECC
Storage Devices	- 2x SATA III ports - 1x mSATA socket - Supports RAID 0, 1, 5 and Intel® Optane™ memory
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 (Gen 3 up to 8.0 GT/s) - 1x PCIe x4 or 4x PCIe x1 by different BIOS support (Gen 3 up to 8.0 GT/s)
Super I/O (Embedded Controller)	IT5121E-I
Audio	- Realtek ALC888S-VD2-GR HDA codec, 7.1 channels - 1x on-board audio pin header
Ethernet	- Intel® WGI219LM + WGI210AT Gigabit Ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - Dual RJ-45 connector with two LED indicators
Serial Port	- 1x RS-232/422/485 selectable by BIOS
USB	- 4x USB 3.0 ports - 2x USB 3.1 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, resolution up to 1920x1600 @ 60Hz - Dual mini DP on bracket, resolution 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 - Supports ATX mode
Environment	- Operation Temperature: 0°C~60°C - Storage Temperature: -20°C~80°C - Relative Humidity: 5~95%, non-condensing
MTBF	Over 100,000 hours at 40°C



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