ROBO-8122VG2R
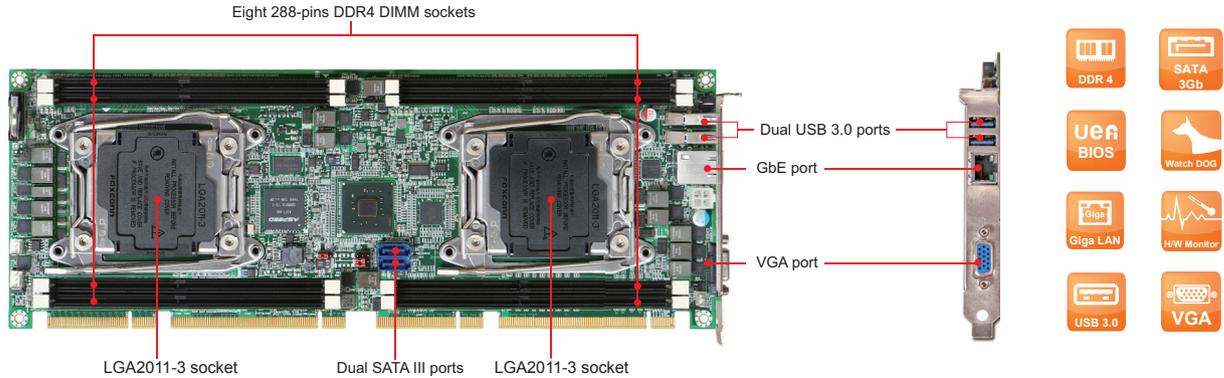
Intel® Xeon® Processor E5-2600 v3 Series Based PICMG® 1.3 SHB with DDR4 ECC REG SDRAM, VGA, Dual Gigabit Ethernet, SATA, USB

Eight 288-pins DDR4 DIMM sockets

Dual USB 3.0 ports

GbE port

VGA port

LGA2011-3 socket

Dual SATA III ports

LGA2011-3 socket

DDR 4 · SATA 3Gb · UEFI BIOS · Watch DOG · Giga LAN · H/W Monitor · USB 3.0 · VGA

ROBO-8122VG2R is based on dual Intel® Xeon® processors and C612 chipset. It's a server class SHB with high computing power and flexible PCI Express expansion. It is designed for military, industrial automation, networking, and medical applications.

FEATURES

- Intel® Xeon® processors E5-2600 v3 series

- DDR4 2133/1866 MHz ECC registered memory, 8x 288-pin DIMM sockets, up to 256 GB

- ASPEED AST1400 graphic engine offers solid 2D performance

- Flexible PCI Express configuration, up to 36 lanes

ORDERING GUIDE

ROBO-8122VG2R	PICMG® 1.3 full-size SHB based on Intel® Xeon® processor E5-2600 v3 LGA2011-3 and Intel® C612 chipset

OPTIONAL ITEMS

B8307810	All-in-one CPU cooler

PACKING LIST

	1x ROBO-8122 PICMG® 1.3 SHB
B8981980	1x SHB handling and installation notice
B8983670	1x driver CD
B6902932	1x SATA III cable

General

Processor	Intel® Xeon® processor E5-2600 v3 series (up to 75W/CPU) in LGA2011-3 package Intel® Hyper-Threading, Virtualization Technology (VT-x), and QuickPath Technology
Chipset	Intel® C612
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	Quad-channel DDR4 2133/1866 MHz ECC registered memory 8x 288-pin DIMM sockets, up to 256 GB
Storage Devices	2x SATA III ports 2x SATA III ports via backplane SW RAID 0, 1
Watchdog Timer	Programmable 0.5 to 254.5 seconds interval
Hardware Monitoring	System monitor (voltage, fan speed, and temperature)
Expansion Interface	From CPU: - 1x PCIe x16 or 2x PCIe x8 or - 1x PCIe x8 + 2x PCIe x4 (Gen3, by BIOS support) From chipset: - 1x PCIe x4 or 4x PCIe x1 (Gen3, by BIOS support)

I/O Interface

Super I/O	ITE IT8772E
Audio	N/A
Ethernet	2x Gigabit Ethernet (Intel® I217-LM and Intel® I210-AT) 1x RJ45 connectors with LED (Intel® I217-LM) on rear bracket 1x through backplane gold finger section C (Intel® I210-AT)
Serial Port	2x Tx/Rx signal route through backplane gold finger section C
USB	2x USB 3.0 on rear bracket 4x USB 2.0 through backplane
Keyboard & Mouse	N/A
GPIO	N/A

Display

Graphic Controller	ASPEED AST1400
Display Interface	1x VGA on rear bracket, resolution up to 1920 x 1200 @ 60Hz

Mechanical & Environmental

Dimension	338.5 x 126.4 mm (13.3" x 5.0")
Power Supply	Typical: +12V, +5V Support ATX mode
Environment	Operating temperature: 0°C to 55°C (depend on CPU speed and cooler solution) Storage temperature: -20° to 80°C Relative humidity: 5~90%, non-condensing
MTBF	Over 100,000 hours at 40°C

All product specifications are subject to change without notice.

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