ROBO-8122VG2R
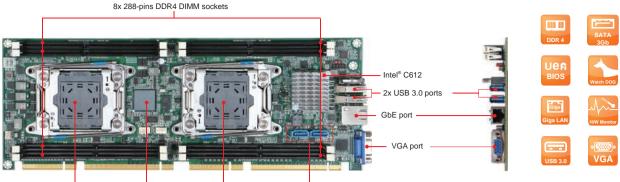
Intel® Xeon® E5-2600Lv3 series processor based on PCIMG 1.3 SHB with DDR4 REG SDRAM, VGA, Dual Gigabit Ethernet, and SATA/USB

8x 288-pins DDR4 DIMM sockets

- Intel® C612
- 2x USB 3.0 ports
- GbE port
- VGA port

LGA2011 socket   ASPEED AST1400   LGA2011 socket   2x SATA III ports

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

ROBO-8122VG2R is based on Intel® C612 chipset and dual Xeon® processors. It's a server grade SHB. Build with high computing power and PCI express expension support, it's suitable for Military, industrial automation, networking, Medical and Digital Signage applications.

FEATURES

- Support Intel® 6C ~ 12C Xeon® processors with LGA 2011 package

- Delivers up to 256GB DDR4 Registered memory assured the computer reliability and benefited the data swapping process

- Adopt ASPEDD AST1400 graphic engine offers solid 2D performance by VGA port

- High speed Gigabit Ethernet based on PCI express x 1 interface

- Flexible PCI Express configuration on backplane up to total 36 lanes

ORDERING GUIDE

AB1-3D44	**(R).ROBO-8122VG2R** PICMG 1.3(PCI-E).LGA2011. Dual Intel Haswell-EP processor with eight DDR4 REG DIMM sockets.SHB.w/VGA/GbE/SATA III/USB 3.0 ports

PACKING LIST

Standard	B6902932 SATA III cable
	B8981980 PICMG SBC Handling and Installation Notice
	B8983670 Installation CD
Optional	B9971490 CPU cooler for single processor(for 4U system)
	B9971510 CPU cooler for single processor(for 2U system)

GENERAL

Processor	- Intel® 6C~12C Xeon® E5-2600Lv3 series processor (50W ~ 75W) with 15~30MB Cache in LGA2011 package (support up to 75W per CPU) - Intel® QPI transfer rates: 6.4, 8 and 9.6GT/s (depends on CPU socket) - DMI x4 Link: 5 GT/s - Supports Intel® Hyper-Threading, Virtualization Technology (VT-x), and QuickPath Technology
Chipset	Intel® C612 PCH
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	- Supports up to 256GB DDR4 2133/1866 SDRAM on Eight 288-pin DIMM sockets - Supports Register
Storage Devices	- 4x SATA III drives (Dual ports via Backplane) - RAID 0, 1
Watchdog Timer	Programmable via S/W from 0.5 sec. to 254.5 sec.
Hardware Monitoring	System monitor(Voltage,Fan Speed and Temperature)
Expansion Interface	- From per CPU: 1x PCIe x16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 by different bios support (Gen3 up to 8.0 GT/s) - From PCH: 1x PCIe x4 or 4x PCIe x1 by different bios support (Gen 3 up to 8.0 GT/s)
Non-standard Gold Finger definition	- Section A/B: PICMG 1.3 Standard PCI Express definition, total 20 lanes - Section D: PCIe x16 from 2nd CPU (Dedicated backplane for ROBO-8122VG2R)

I/O INTERFACE

Super I/O	ITE IT8772E
Audio	N/A
Ethernet	- On-board Intel® WGI217LM + WGI210AT Gigabit Ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - PCI Express x1 interface based on Gigabit Ethernet - Single RJ-45 connector with two LED indicators for WGI217LM on bracket, the other port route to Golden finger section C on BP for WGI210AT
Serial port	2x Tx/Rx signal route to Golden finger section C on BP (4 pins)
USB	- 4x USB 2.0 ports (through backplane) - 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges - 2x USB 3.0 ports on bracket - 5Gbps bus capable of high-speed/ full-speed/low-speed data ranges
Keyboard & Mouse	2x USB 3.0 ports on bracket dedicated to keyboard & mouse
GPIO	N/A

DISPLAY

Graphic Controller	ASPEED AST1400
Display Interface	CRT on bracket:up to 1920x1200@60Hz

Mechanical & Environment

Dimension	338.5mm(L) x 126.39mm(W), 13.33"(L) x 4.98"(W)
Power Supply	Typical: +12V, +5V -Support ATX mode
Environment	Operatin Temperature:0°C ~ 50°C(for 75W CPU limitation) Storage Temperature:-20°C ~ 80°C Relative Humidity:5~90%,non-condensing Thermal Solution depends on chassis design and system fan selection
Certification	CE,FCC Class A
MTBF	Over 100,000 hours at 40°C