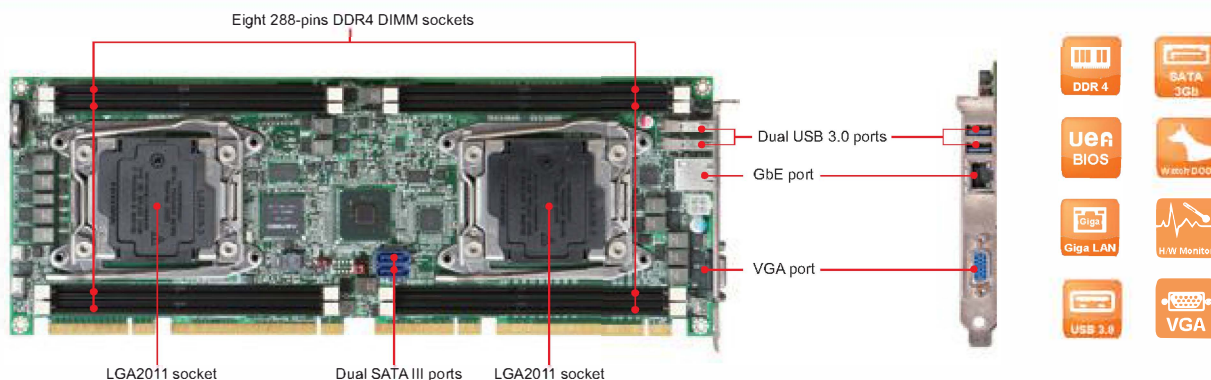


ROBO-8122VG2R

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



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 expansion 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 ECC 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
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PACKING LIST

Standard	B6902932 SATA III cable B8981980 PICMG SBC Handling and Installation Notice B8983670 Installation CD
Optional	B8307810 All in one CPU cooler

GENERAL

Processor	- Intel® 6C~12C Xeon® E5-2600Lv3 series processor (50~75W) 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 sku) - 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 SATAIII 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 PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by different bios support (Gen3 up to 8.0 GT/s) - From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support (Gen 3 up to 8.0 GT/s)
Gold Finger definition	- Section A/B: PICMG 1.3 Standard PCI Express definition, total 20 lanes - Section D: PCI Express 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 gold finger section C on BP for WGI210AT
Serial port	2x Tx/Rx signal route to gold 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: Resolution 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 0~55°C (for 75W CPU limitation) Storage Temperature:-20~80°C Relative Humidity:5~90%,non-condensing Thermal Solution depends on chassis design and system fan selection
MTBF	Over 100,000 hours at 40°C

