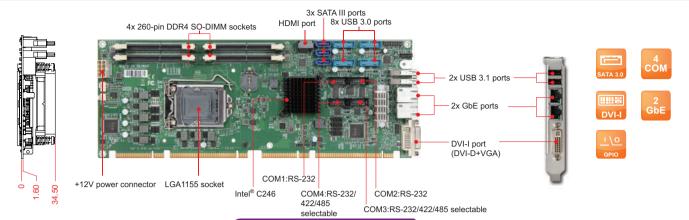


ROBO-8114VG2AR 1.3 SHB with DDR4 SDRAM, HDMI, DVI-I, Dual Gigabit Ethernet, Audio and USB

Intel® Xeon® E/ Core™ i3/i5/i7 Pentium® / Celeron® processor based on PICMG 1.3 SHB with DDR4 SDRAM, HDMI,



ROBO-8114VG2AR is based on Intel® C246 chipsetand workstation processors. Built with flexible PCI express expansions, ROBO-8114VG2AR is suitablefor Medical, Industrial Automation

FEATURES

- Supports Intel® Xeon®/Core™ i3/i5/i7/ Pentium®/ Celeron® processors in LGA 1151 package
- Delivers up to 64GB maximum DDR4 2133 ECC SO-DIMM on four sockets
- Supports mutiple display by DVI-I(DVI-D+VGA)and HDMI
- High speed dual Gigabit Ethernet based on PCle x press x 1, high bandwidth I/O
- Rich I/O connections such as four serials ports, USB 3.0/3.1, SATA III ports
- Support on board TPM2.0

ORDERING GUIDE

AB1-3J28	ROBO-8114VG2AR
	PICMG 1.3(PCI-E+PCI).LGA1151. C246
	PCH. IntelXeon/Core i3 processors.SHB.w/
	VGA/Dua IGbE/Audio/four COM ports

PACKING LIST

Standa	ard	I BD Installation CD
		B6902352 dual head COM port cable with
		bracket
		B6903351 DVI-D + VGA cable
		B8981980 PICMG SBC Handling and
		Installation Notice
		B6902932 SATA III cable
Option	nal	B6903090 USB 3.0 cable with bracket
'		B6902980 PS/2 Keyboard / Mouse Cable with
		bracket
		B6902230 USB port cable with bracket







GENERAL	
OLIVEIVAL	
Processor	 Intel® Xeon® E Family/ Core™ i3/i5/i7/ Pentium®/ Celeron® processors up to 3.6 GHz(35-95W) in LGA-1151 package DMI x4 Link: 5.0GT/s Support Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku)
Chipset	Intel® C246 PCH
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	Supports up to 64GB DDR4 2133 SDRAM on four 260-pin SO-DIMM sockets Supports ECC
Storage Devices	- 5x SATAIII drives (Dual ports via Backplane) - Supports RAID 0, 1, 5, 10 - 1x M.2 Type M 2280 (on bottom side)
Watchdog Timer	Programmable via S/W from 0.5 sec. to 255 sec
Hardware Monitoring	System monitor(Voltage, Fan Speed and Temperature)

		RF	

	- From CPU: 1x PCIe x16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 by jumper seng
	(Gen3 up to 8.0 GT/s)
Expansion Interface	- From PCH: 1x PCle x4 or 4x PCle x1 by different bios support
	(C2 ·· t 0.0 CT/-)

- 4x PCI devices at 32bit 33MHz

Super I/O ITE IT5121E-I-128 (Embedded Controller)

- Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886 HDA codec, 7.1 channels Audio - one on board audio pin header

- Intel® WGI219LM + WGI225LM Gigabit Ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet Ethernet - PCI Express x1 interface based on Gigabit Ethernet

- Dual RJ-45 connectors with two LED indicators - 2x RS-232 ports - 2x RS-232/422/485 ports selectable Serial Port

- 4x USB 2.0 ports (through backplane) 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges **USB** - 5Gbps bus capable of high-speed/ full-speed/low-speed data ranges

- 10Gbps bus capable of high-speed/ full-speed/low-speed data ranges - 2x USB 3.1 ports on bracket dedicated to keyboard & mouse Keyboard & Mouse

- LPC to COM port IC: Fintek F81216DG

- 1x 10 pin box header for external PS/2 KB & MS On board programmable 8-bit Digital I/Os **GPIO**

DISPLAY

- Intel® Xeon® and Core™ i3 processors integrated graphics engine **Graphic Controller**

- Provides improved 3D multimedia capabilities including Microso DirectX 12, OCL 2.x and OpenGL 4.3/4.4

Support independent triple display by - VGA on bracket: Resolution up to 1920x1200 @ 60Hz

- DVI-D on bracket: up to 1920x1200 @ 60Hz Display Interface

(VGA + DVI-D on bracket by DVI-I port) - HDMI on board: up to 3200x2000 @ 60Hz

Mechanical & Environment

- 338.5mm(L) x 126.39mm(W), 13.33"(L) x 4.98"(W) Dimension

- Support ATX mode

- PCB: 8 layers - Typical: +12V, +5V Power Supply

Environment - Operation Temperature: 0~60°C

- Storage Temperature: -20~80°C

- Relative Humidity: 5~95%, non-condensing