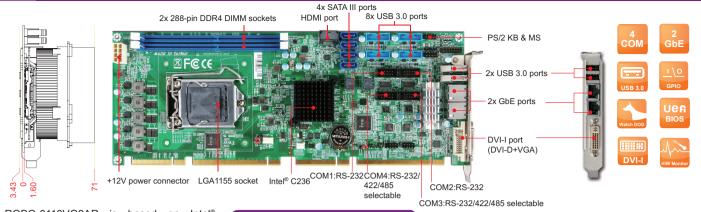
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ROBO-8113VG2AR

Intel® Xeon® E3/ Core™ i3/i5/i7 Pentium®/ Celeron® processor based on PICMG 1.3 SHB with DDR4 SDRAM, HDMI, DVI-I, Dual Gigabit Ethernet, Audio and USB



ROBO-8113VG2AR is based on Intel® C236 chipset and workstation processors. Built with flexible PCI express expansions, ROBO-8113VG2AR is suitable for Medical, Industrial automation, and Digital Signage application.

FEATURES

- Supports Intel® 7th and 6th Gen Skylake-S Kaby Lake-S Xeon®/Core™ i3/i5/i7/ Pentium®/Celeron® processors in LGA 1151 package
- Delivers up to 32GB maximum DDR4 2133 ECC DIMM on two sockets
- Supports mutiple display by DVI-I(DVI-D+VGA) and HDMI
- High speed dual Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
- Rich I/O connections such as four serials ports, USB 3.0/2.0, SATA III ports
- Support on board TPM2.0

ORDERING GUIDE

AB1-3D40	(R).ROBO-8113VG2AR		
	PICMG 1.3(PCI-E+PCI).LGA1151. Intel®		
	Xeon®/Core™ i3 processors.SHB.w/VGA/		
	Dual GbE/Audio/four COM ports		
AB1-3G68	(R).ROBO-8113VG2AR-KBL		
	PICMG 1.3(PCI-E+PCI).LGA1151. Intel®		
	Xeon®/Core™ i3 processors.SHB.w/VGA/		
	Dual GbE/Audio/four COM ports		

PACKING LIST

Standard	B6902932 SATA III cable
	B8981980 PICMG SBC Handling and Installation
	Notice
	B6903350 DVI-D + VGA cable
	B6902350 dual head COM port cable with
	bracket
	B8983660 Installation CD
Optional	B6902980 PS/2 Keyboard / Mouse Cable with
	bracket
	B6902230 USB port cable with bracket
	B6903090 USB 3.0 cable with bracket



GENERAL				
Processor	- Intel® Xeon® E3-1200v5/v6 series / Core™ i3/i5/i7/Pentium®/Celeron® processors up to 3.6 GHz (35-80W) with (8MB) Cache 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® C236 PCH			
BIOS	AMI UEFI BIOS (SPI ROM)			
Memory	- Supports up to 32GB DDR4 2133/1866 SDRAM on two 288-pin DIMM sockets - Supports ECC			
Storage Devices	- 6x SATAIII drives (Dual ports via Backplane) - RAID 0, 1, 5, 10			
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 CPU (Xeon®/Core™ i3): 1x PCle x16 or 2x PCle x8 or 1x PCle x8 + 2x PCle x4 by jumper setting (Gen3 up to 8.0 GT/s) - From PCH:1x PCle x4 or 4x PCle x1 by different bios support (Gen 3 up to 8.0 GT/s) - 4x PCl devices at 32bit 33MHz			

I/O INTERFACE	
Embedded Controller	ITE IT8528E
Audio	 Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit Realtek ALC886-GR HDA codec, 5.1 channels one on- board audio pin header
Ethernet	 Intel® WGI219LM + WGI210AT Gigabit Ethernet controller Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet PCI Express x1 interface based on Gigabit Ethernet Dual RJ-45 connector with two LED indicators
Serial Port	- 2x RS-232 ports - 2x RS-232/422/485 selectable - LPC to COM port IC: Fintek F81216DG
USB	 - 4x USB 2.0 ports (through backplane) - 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges - 10x USB 3.0 ports on board (eight ports on board, dual 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 (on bracket) - 1x 10 pin box header for external PS/2 KB & MS
GPIO	On board programmable 8-bit Digital I/Os

rs integrated graphics engine
apabilities including Microsoft DirectX 12, OCL
y)20x1200 @ 60Hz @ 60Hz ort)
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Dimension	- 338.3filfit(L) x 120.39filfit(W), 13.33 (L) x 4.96 (W)
Power Supply	- Typical: +12V, +5V - Support ATX mode
Environment	- Operatin Temperature:0~60°C - Storage Temperature:-20~80°C - Relative Humidity:5~90%,non-condensing
Certification	CE,FCC Class A
MTDE	Over 100 000 hours at 40°C

