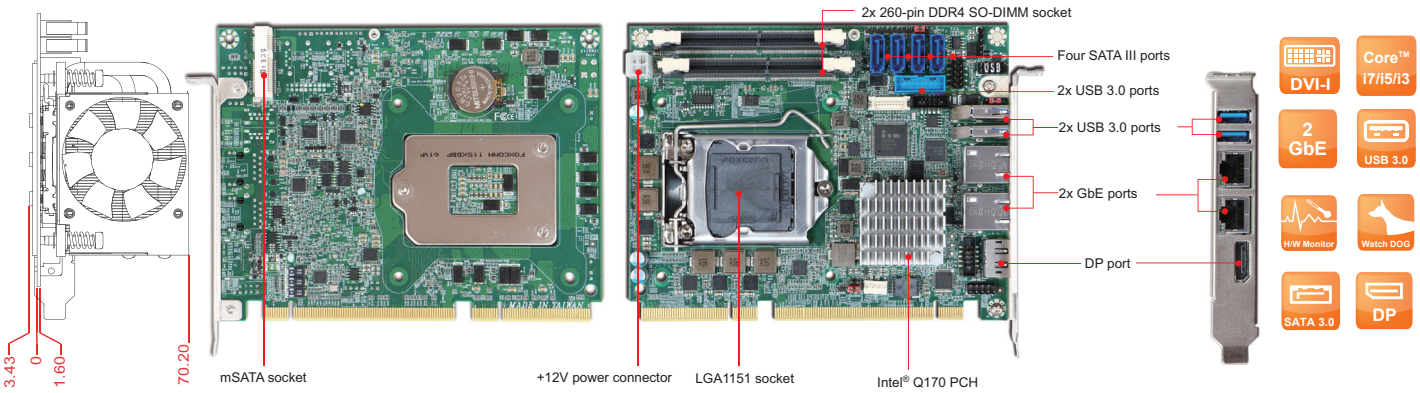
ROBO-6911VG2AR-Q170

Intel® Core™ i3/i5/i7/Pentium®/ Celeron® processor based on PICMG 1.3 half size SHB with DDR4 SODIMM, DP, DVI-I, Dual Gigabit Ethernet, mSATA, Audio, USB



ROBO-6911VG2AR is based on Intel® Q170 chipset to support Core™ i5 and i7 processors. Built with flexible PCI express expansions, ROBO-6911VG2AR-Q170 is suitable for Medical, Industrial automation, and Digital Signage application.

FEATURES

- Support Intel® 7th and 6th Gen Skylake-S Kaby Lake-S processor in LGA1151
- Delivers up tp 32GB maximum DDR4 2133 MT/s non-ECC SODIMM on two sockets
- Supports mutiple display by DP on bracket and on-board DVI-I(DVI-D+VGA)
- High speed dual Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
- On-board four SATAIII ports, support RAID 0, 1, 5, 10

ORDERING GUIDE

AB1-3D39	**(R).ROBO-6911VG2AR-Q170** PICMG 1.3 half size (PCI-E) .LGA1151. Intel® i5/i7 processors.SHB.w/DP/DVI-I/Dual GbE/Audio/mSATA
AB1-3G65	**(R).ROBO-6911VG2AR-Q170-KBL** PICMG 1.3 half size (PCI-E) .LGA1151. Intel® i5/i7 processors.SHB.w/DP/DVI-I/Dual GbE/Audio/mSATA

PACKING LIST

Standard	B6902932 SATA III cable
	B8981980 PICMG SBC Handling and Installation Notice
	B8983650 Installation CD
Optional	B6902230 USB port cable with bracket
	B6903090 USB 3.0 cable with bracket

GENERAL

Processor	- Intel® Core™ i3/i5/i7 Pentium®/Celeron® processors up to 3.4 GHz (35~65W) 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® Q170
BIOS	AMI UFEI BIOS (SPI ROM)
Memory	- Supports up to 32GB DDR4 2133/1866 MT/s SDRAM on two 260-pin ECC or non ECC SODIMM sockets - Supports non-ECC
Storage Devices	4x SATAIII ports 1x mSATA socket
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	- 1x PCIe x16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 by jumper setting (Gen3 up to 8.0 GT/s) - 1x PCIe x4 or 4x PCIe x1 by different bios support (Gen 3 up to 8.0 GT/s)

I/O INTERFACE

Super I/O	ITE IT8772E
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	- 1x RS-232/422/485 selectable by bios
USB	- 4x USB3.0 ports (2 ports on bracket)
Keyboard & Mouse	2xUSB3.0 ports on bracket dedicated to KB & MS
GPIO	N/A

DISPLAY

Graphic Controller	Intel ® 6th Skylake-S processors integrated graphics engine
Display Interface	Support independent triple display by - CRT on bracket:up to 1920x1200 @ 60Hz - DVI-D on bracket:up to 1920x1200 @ 60Hz (CRT+ DVI-D by on-board connector) - DP: up to 4096X2304@60Hz (on bracket)

Mechanical & Environment

Dimension	167.64mm(L) x 126.39mm(W), 6.6"(L) x 4.98"(W) -PCB: 12 layers
Power Supply	Typical: +12V, +5VSB -Support ATX mode
Environment	Operatin Temperature:0°C~60°C -Storage Temperature:-20°C~80°C -Relative Humidity:5~90%,non-condensing
Certification	CE,FCC Class A
MTBF	Over 100,000 hours at 40°C