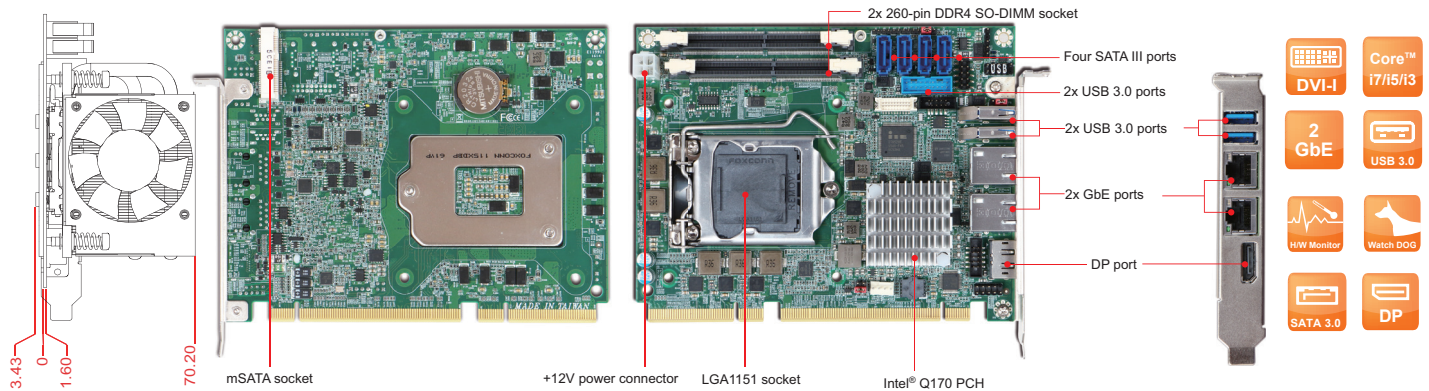


# ROBO-6911VG2AR-Q170

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



ROBO-6911VG2AR-Q170 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® 7<sup>th</sup> and 6<sup>th</sup> Gen Skylake-S Kaby Lake-S processor in LGA1151
- Delivers up to 32GB maximum DDR4 2133 MT/s non-ECC SO-DIMM on two sockets
- Supports multiple display by DP on bracket and on-board DVI-I (DVI-D+VGA)
- High speed dual Gigabit Ethernet based on PCI express x1, high bandwidth I/O interface
- On-board four SATAIII ports, support RAID 0, 1, 5, 10

## ORDERING GUIDE

<b>AB1-3D39</b>	(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
<b>AB1-3G65</b>	(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

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

## GENERAL

<b>Processor</b>	- 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)
<b>Chipset</b>	Intel® Q170
<b>BIOS</b>	AMI UEFI BIOS (SPI ROM)
<b>Memory</b>	- Supports up to 32GB DDR4 2133/1866 MT/s SDRAM on two 260-pin ECC or non ECC SO-DIMM sockets - Supports non-ECC
<b>Storage Devices</b>	4x SATAIII ports 1x mSATA socket
<b>Watchdog Timer</b>	Programmable via S/W from 0.5 sec. to 254.5 sec
<b>Hardware Monitoring</b>	System monitor(Voltage,Fan Speed and Temperature)
<b>Expansion Interface</b>	- 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

<b>Super I/O</b>	ITE IT8772E
<b>Audio</b>	- 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
<b>Ethernet</b>	- 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
<b>Serial Port</b>	- 1x RS-232/422/485 selectable by bios
<b>USB</b>	- 4x USB3.0 ports (2 ports on bracket)
<b>Keyboard &amp; Mouse</b>	2x USB3.0 ports on bracket dedicated to KB & MS
<b>GPIO</b>	N/A

## DISPLAY

<b>Graphic Controller</b>	Intel® 6 <sup>th</sup> Skylake-S processors integrated graphics engine
<b>Display Interface</b>	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

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

