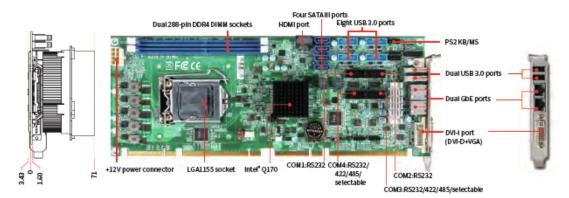
# ROBO-8113VG2AR-Q170





# **FEATURES**

- Supports Intel 6th Skylake-S Core 15/17 processors in LGA 1151 package
- Delivers up tp 32GB maximum DDR4 2133 non-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
- On-board stx SATAIII ports
- Rich I/O connections such as four serials ports, USB 3.0/2.0, SATAIII ports

## GENERAL

- Intel® XCore™ i5/i7 processors up to 3.4 GHz (35~65W) with (8MB) Cache in LGA-1151 package
- DMI x4 Link: 5.0GT/s

Processor - Support Intel<sup>®</sup> Turbo Boost , Hyper-Threading, Virtualization, Thermal

Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku) Intel® Q170

Chipset AMI UFEI BIOS (SPI ROM)

BIOS Supports up to 32GB DDR4 2133/1866 SDRAM on two 288-pin DIMM sockets
Supports non-ECC

Memory

- 6x SATAIII drives (Dual ports via Backplane)

Storage Devices - RAID 0, 1, 5, 10

Programmable via S/W from 0.5 sec. to 254.5 sec Watchdog Timer System monitor (Voltage, Fan Speed and Temperature) Hardware Monitoring

From CPU (Core i5/i7): 1x PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by Jumper setting (Gen3 up to 8.0 GT/s)
From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different blos support (Gen 3 up to

Expansion Interface

### I/O INTERFACE

Embedded Controller ITE IT8528E

- Intel\* PCH built-in High Definition Audio up to 192-kHz 32-bit Audio - Realtek ALC886-GR HDA codec, 5.1 channels

one on- board audio pin header

 Intel® WGI219LM + WGI210AT gigabit ethernet controller
Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet Ethernet PCI Express x1 interface based on gigabit ethernet
Dual RJ-45 connector with two LED indicators

- 2x RS232 ports

Serial Port 2x RS 232/422/485 selectable LPC to COM port IC: Fintek F81216DG

- 2x 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 USB

- 2x USB 3.0 ports on bracket dedicated to keyboard & mouse (on bracket) Kevboard & Mouse - 1x 10 pin box header for external PS/2 keyboard/mouse

GPIO On board programmable 8-bit Digital I/Os

# DISPLAY

 Intel® CoreTM I5/I7 processors integrated graphics engine
Provides improved 3D multimedia capabilities including Microsoft DirectX 12, OCL 2.x and OpenGL 4.3/4.4 Graphic Controller

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

Display Interface

- DVI-D on bracket: up to 1920x1200 @ 60Hz (CRT + DVI-D on bracket by DVI-I port) - HDMI: up to 4096x2160 @ 24Hz

338.5mm (L) x 126.39mm (W), 13.33" (L) x 4.98"" (W) Dimension PCB: 8 layers

- Typical: +12V,+5V - Support ATX mode Power Supply

Mechanical & Environment

- Operatin Temperature:0~60℃

- Storage Temperature:-20~80°C - Relative Humidity:5~90%,non-condensing Environment

MTBF Over 100,000 hours at 40°C