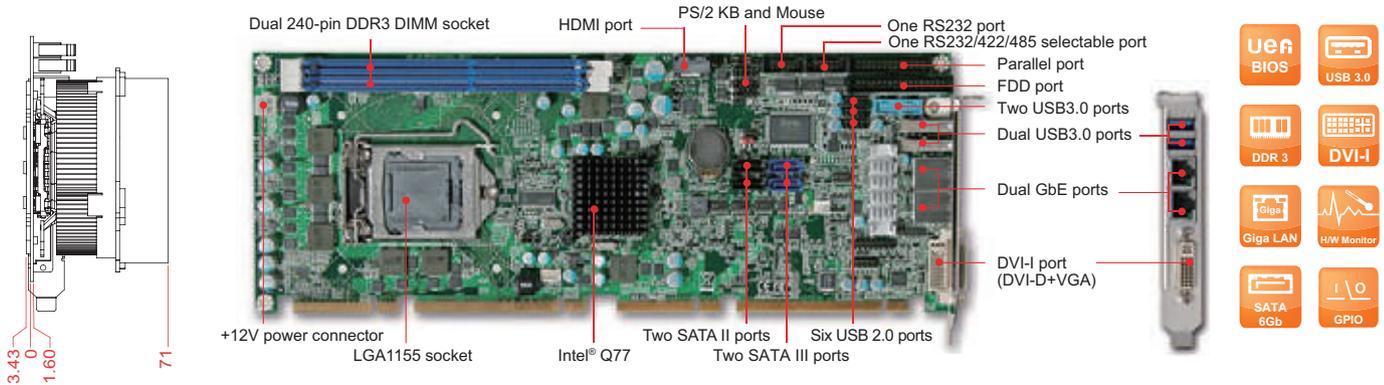


ROBO-8111VG2AR-Q77

Intel® Core™ i7/i5 processor based on PICMG 1.3 SHB with DDR3 SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB3.0



ROBO-8111VG2AR-Q77 is based on Intel® Q77 chipset and Core™ i7/i5 sku processor. It's suitable for Medical, Factory Automation, and Digital Signage applications.

FEATURES

- Supports Intel® Core™ i7/i5 processors in LGA1155 package
- Delivers up to 16GB maximum DDR3 1333/1600 SDRAM on two DIMM sockets
- Supports multiple display by DVI-I (DVI-D+VGA) and HDMI
- Supports iAMT 8.0 on Intel® Core™ i7/i5 processors
- High speed dual Gigabit Ethernet based on PCI Express x1, high bandwidth I/O interface
- Rich I/O connections such as FDD, two Gigabit Ethernet, serial ports, parallel port, USB 2.0/3.0
- On-board two SATA II and two SATA III ports support RAID 0,1,5,10

ORDERING GUIDE

| | |
|-----------------|---|
| AB1-2330 | ROBO-8111VG2AR-Q77 PICMG 1.3(PCI-E+PCI),LGA1155. i7/i5 processors.SHB.w/VGA/Dual GbE/ Audio |
|-----------------|---|

PACKING LIST

| Standard | Optional |
|---|---|
| B6901990 SATA II cable | B6902980 PS/2 Keyboard / Mouse Cable with bracket |
| B6902930 SATA III cable (Black) | B6902230 USB port cable with bracket |
| B690021S cable kit for FDD+PRN with bracket | B6903090 USB 3.0 cable with bracket |
| B6903240 Dual head COM port cable with bracket | AB9-2066 PA-M1AU Multiple Media kit |
| B6903350 DVI-D + VGA cable | |
| B8981980 PICMG SBC Handling and Installation Notice | |
| B3751500 Installation CD | |

GENERAL

| | |
|---------------------|---|
| Processor | - Intel® Core™ i7/i5 processor in LGA1155 package - IDMI x4 Link: 5.0 GT/s - Supports Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep® Technology (depends on CPU sku) |
| Chipset | Intel® Q77 PCH |
| BIOS | Phoenix UEFI BIOS |
| Memory | - Supports up to 16GB DDR3 1333/1600 SDRAM on two 240-pin DIMM sockets |
| Storage Devices | - Supports 2x SATA III drives and 4x SATA II drives (Dual SATA II ports via Backplane) - RAID 0,1,5,10 - 1x FDD channel |
| 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: 1x PCI Express x16 - From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support - 4x PCI devices at 32 bit 33 MHz |

I/O INTERFACE

| | |
|------------------|---|
| Super I/O | ITE IT8728F |
| Audio | - Intel® BD82C216 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886-GR HDA codec, 5.1 channels |
| Ethernet | - Intel® 82579LM+82574L 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 RS232 and 1x selectable RS232/422/485 on board |
| USB | - 10x USB 2.0 ports (four ports through backplane) - 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges - 4x USB 3.0 ports on board (two ports on board, two 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 |
| GPIO | On board programmable 8-bit Digital I/Os |
| Others | 1x parallel port |

DISPLAY

| | |
|--------------------|--|
| Graphic Controller | - Intel® Core™ i7/i5 processors integrated graphics engine - Provides improved 3D multimedia capabilities including Microsoft DirectX 11, Shader Model 4.0, MPEG-2 and OpenGL 3.1 |
| Display Interface | - CRT on bracket: Resolution up to 2048x1536 @75Hz - DVI-D: up to 1920x1200 @60Hz - HDMI: up to 1920x1200 @60Hz(CRT+DVI-D on bracket by DVI-I port) |

Mechanical & Environment

| | |
|--------------|--|
| Dimension | - 338.5(L) x 126.39(W)mm; 13.33"(L) x 4.98"(W) - PCB: 12 layers |
| Power Supply | - Typical: +12V@4.85A; +5V@3.4A - Supports ATX mode |
| Environment | - Operation Temperature: 0~60 °C (with highest performance on 50 °C) - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing |
| MTBF | Over 100,000 hours at 40°C |

