WADE-8020
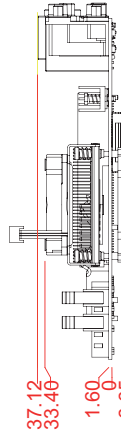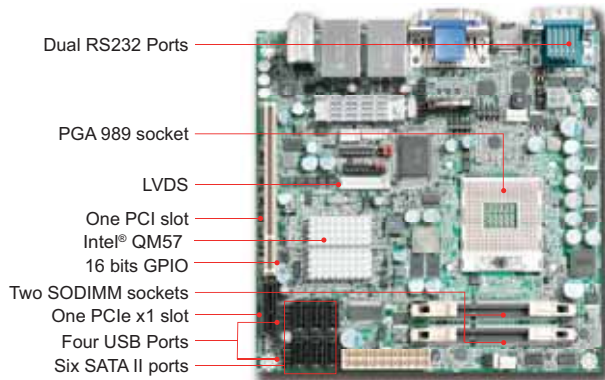
Intel® Core™ i5/i7 processor based Mini-ITX with DDR3 SDRAM, Dual Display, Dual Gigabit Ethernet and USB Ports

Dual RS232 Ports

PGA 989 socket

LVDS

One PCI slot
Intel® QM57
16 bits GPIO
Two SODIMM sockets
One PCIe x1 slot
Four USB Ports
Six SATA II ports
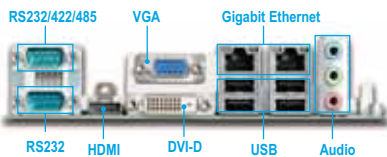
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Mini PCIe x1 slot

The WADE-8020 is built with the Intel® mobile QM57 chipset which works well with Intel® Core™ i5/i7 mobile processor technologies capable of supporting dual channel DDR3 memory. These features make the WADE-8020 the ideal solution for POS, Lottery, Medical, Gaming, High Resolution Digital Signage, Surveillance Security Monitoring, and Kiosk applications.

FEATURES

- Intel® Core™ i5/i7 processor (Quad-Core CPU support)
- Intel® QM57 PCH
- Two 204-pin SODIMMs support dual channel DDR3 SDRAM up to 8GB
- One PCI-Express x1 and one PCI Expansion slot
- One Mini-PCIe socket (with USB+PCIe x1 signal)
- Three RS232 ports and one RS232/422/485 port
- Six SATA II ports
- Dual Display by VGA/DVI/HDMI/LVDS (24 bits)
- Intel® Active Management Technology (Intel® AMT) 6.0

REAR I/O

RS232/422/485   VGA   Gigabit Ethernet

RS232   HDMI   DVI-D   USB   Audio

ORDERING GUIDE

AB1-3587	**(R).WADE-8020** Mini-ITX ESB.QM57 w/o ECC PGA989.w/DDR3 SO-DIMM/VGA/LVDS/DVI/HDMI/Dual GbE/COM/ Audio/USB
AA1-3050	**PEP-5311R** 1 Slot Riser Card for Right Expansion.1xPCI.For WADE-8141/8041+C34

PACKING LIST

One WADE-8020 Mini-ITX Main Board
One Installation CD
One SATA Cable
One I/O shield

GENERAL

Processor	- Intel® Core™ i5/i7 or Celeron® processor with 4/3/2MB L2 Cache in PGA989 - package supports Intel® Virtualization Technology (VT-x), Enhanced Intel® SpeedStep® Technology, Thermal Monitoring Technologies
Chipset	Intel® BD82QM57 PCH (3.5W)
BIOS	AMI UEFI BIOS
Memory	Supports dual channel up to 8GB DDR3 1066/1333 MHz SDRAM on two 204-pin SODIMM socket
Storage Devices	- 6x SATA supports up to 3.0Gb/s data transfer rate - RAID 0,1,5,10
Watchdog Timer	Programmable via S/W from 1 sec. to 255 min.
Hardware Monitoring	Monitoring Temperature, Voltage and cooling fan status.
Expansion Interface	- 1x PCI Express x1 slot (Gen 1, 2.5 GT/s) - 1x PCI 32-bit slot at 33MHz - 1x Mini-PCIe slot

I/O INTERFACE

Super I/O	ITE IT8721F
Audio	- Intel® QM57 built-in High Definition Audio up to 192-kHz 24-bit - Realtek ALC888, 5.1 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	Intel® 82574L and Intel® 82577LM Dual Gigabit Ethernet controllers support iAMT 6.0
Serial Port	- 1x RS232 port on rear I/O - 1x RS232/422/485 selectable port on rear I/O - 2x RS232 port on pin header
USB	- 4x USB 2.0 ports on rear I/O - 4x USB 2.0 ports on board with header - 480 Mb/s bus is capable of high-speed/full-speed/low-speed data ranges
GPIO	On board programmable 16-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® QM57 integrated Intel® HD Graphics (GMA HD) supports full hardware acceleration of video decoding standards, such MPEG2, MPEG4 - Supports Intel® Gen 6.0 integrated Graphics Engine
Display Interface	- VGA: dual channel 24-bit VGA, analog resolution up to 2048x1536(QXGA) - LVDS: dual channel 24-bit LVDS, Digital LVDS resolution up to 1600x1200(UXGA) - HDMI: dual channel 24-bit HDMI, Digital HDMI resolution up to 1920x1200(WUXGA) - DVI: dual channel 24-bit DVI, Digital DVI resolution up to 1920x1200 (WUXGA)

Mechanical & Environment

Dimension	170(L) x 170(W)mm; 6.69"(L) x 6.69"(W)
Power Supply	- Typical: +12(CPU)@1.25A; +12V(System)@0.33A; +5V@3.55A - Supports ATX mode
Environment	- Operation Temperature: 0°C to 60°C - Relative Humidity: 5% to 95%, non-condensing
Certification	CE,FCC Class A
MTBF	Over 120,000 hours at 40°C

UEFi BIOS   DDR 3   SATA 3Gb   Watch DOG   H/W Monitor   I/O GPIO   iAMT 6.0   2 GbE   HDMI