

# WADE-8020

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



## FEATURES

- Intel® Core™ i5 / i7 processor (Quad-Core CPU support)
- Intel® QM57 chipset
- Two 204 pin SO-DIMMs 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 ports
- Dual Display by VGA / DVI / HDMI / LVDS (24bits)
- Intel® Active Management Technology (Intel® AMT) 6.0

### SYSTEM

<b>CPU</b>	Intel® Core™ i5 / i7 processor (PGA 989)
<b>BIOS</b>	AMI uEFI BIOS (SPI ROM)
<b>System Chipset</b>	Intel® QM57
<b>System Memory</b>	Two 204-pin SO-DIMM support dual channel DDR3 SDRAM up to 8GB
<b>Storage</b>	6 x Serial ATA connector high-speed data transfers at up to 3 Gb/s. RAID 0, 1, 5, 10
<b>Watchdog Timer</b>	Programmable via S/W form 1 sec. ~255min.
<b>H/W Status Monitor</b>	Monitoring Temperature, Voltage, and cooling fan status.
<b>GPIO</b>	Onboard programmable 16-bit Digital I/Os
<b>Expansion</b>	-One PCI slot and One PCI-E x1 slot -One Mini-PCI-E slot

### MECHANICAL & ENVIRONMENTAL

<b>Power Requirement</b>	TBD
<b>Operating Temperature</b>	0~60°C
<b>Operating Humidity</b>	5%-95% non-condensing
<b>Size (L x W)</b>	6.69" x 6.69" (170 mm x 170 mm)
<b>Weight</b>	0.94 lbs (0.43 Kg)

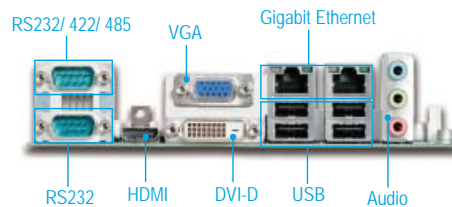
### I/O

<b>MIO</b>	-1 x RS232 port, 1 x RS232/422/485: (external) -2 x RS232 with header: (internal)
<b>USB</b>	4 x USB 2.0 ports and 4 x USB 2.0 with header
<b>Audio Interface</b>	Mic-in, Line-in, Line-out
<b>Ethernet Interface</b>	Dual Gigabit Ethernet (Intel® 82574L, Intel® 82577LM supports iAMT 6.0)

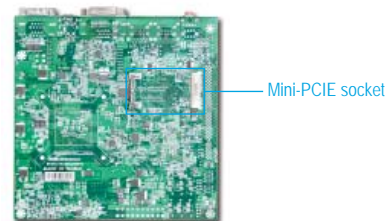
### DISPLAY

<b>Chipset</b>	Intel® QM57
<b>Graphic Engine</b>	Intel® Gen 6.0 integrated Graphics Engine
<b>Resolution</b>	Analog Display: Up to 2048 x 1536 (QXGA) Digital LVDS: Up to 1600 x 1200 (UXGA) HDMI: Up to 1920 x 1200 (WUXGA) DVI: Up to 1920 x 1200 (WUXGA)
<b>Multi Display</b>	VGA / DVI / HDMI / LVDS

## REAR I/O



## SOLDER SIDE



## ORDERING GUIDE

### ■ WADE-8020

Intel® Core™ i5 / i7 processor Based Mini-ITX Board with VGA, 24-bit LVDS, HDMI, Dual GbE LAN, Four COM ports and Eight USB 2.0 ports