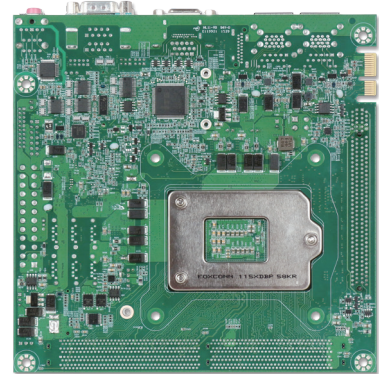
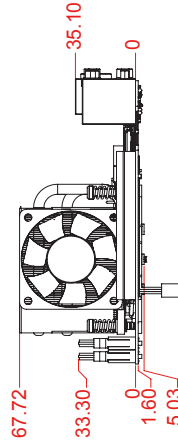
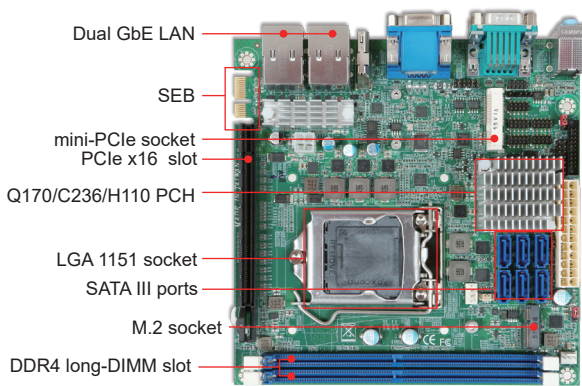


# WADE-8017

Leading Desktop Intel® 7<sup>th</sup> and 6<sup>th</sup> Gen Core™ Processors (former Kaby Lake/Skylake) Mini-ITX with DDR4 SDRAM, Triple Displays, 2x GbE LAN ports, 6x COM Ports

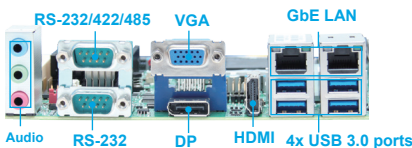


WADE-8017 is based on Intel® Q170/C236/H110 chipset and desktop processors including Intel® 7<sup>th</sup> and 6<sup>th</sup> Gen Core™ i3/i5/i7 SKU. This board supports DDR4, PCIe 3.0, and SATA III. Those features help you to build high performance and stability system.

## FEATURES

- Intel® 7<sup>th</sup> and 6<sup>th</sup> Gen Core™ Processors support
- 2x long-DIMM support DDR4 ECC/Non-ECC SDRAM up to 32GB
- Display : VGA/DP/HDMI
- 1x PCIe x1 Golden finger support SEB  
6x SATA III ports support RAID 0/1/5/10  
H110 just support 4x SATA port and not support RAID Function
- 1x PCIe x16 (Gen3), one M.2 type E socket (H110 not support)

## REAR I/O



## ORDERING GUIDE

<b>AB1-3D16</b>	<b>(R).WADE-8017</b> Mini-ITX ESB.Q170 w/o ECC LGA1151.w/DDR4 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB
<b>AB1-3D75</b>	<b>(R).WADE-8017-H110</b> Mini-ITX ESB.H110 w/o ECC LGA1151.w/DDR4 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB
<b>AB1-3D76</b>	<b>(R).WADE-8017-C236.</b> Mini-ITX ESB.C236 w/ECC LGA1151.w/DDR4 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB
<b>AB1-3G16</b>	<b>(R).WADE-8017-kBL</b> Mini-ITX ESB.Q170 w/ECC LGA1151.w/DDR4 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB
<b>AB1-3G13</b>	<b>(R).WADE-8017-C236-kBL</b> Mini-ITX ESB.C236 w/ECC LGA1151.w/DDR4 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB
<b>AB1-3G12</b>	<b>(R).WADE-8017-H110-kBL</b> Mini-ITX ESB.H110 w/o ECC LGA1151.w/DDR4 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB

## PACKING LIST

One WADE-8017 motherboard
One Driver CD
One SATA Cable

## GENERAL

Processor	Intel® 7 <sup>th</sup> and 6 <sup>th</sup> Gen Core™ Processors CPU in LGA1151 package
Chipset	Intel® Q170/C236/H110
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	Support up to 32GB DDR4 2133/1866 MT/s ECC/Non-ECC SDRAM on 2x 288 pin DIMM socket
Storage Devices	6x SATA III (H110 just support 4x SATA)
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor (Voltage, Fan Speed and Temperature)
Expansion Interface	- 1x PCIe 3.0 x16 slot - 1x M.2 Type E socket(H110 not support) - 1x mini-PCIe socket(H110 just support mSATA) - 1x PCIe 2.0 x1 Golden finger

## I/O INTERFACE

Super I/O	N/A
Audio	- Audio Jack on rear I/O with Line-in/ Line-out/ Mic-in - Realtek ALC892 HD Audio codec
Ethernet	- Intel® I219LM and Intel® I211AT Ethernet controller - 2x RJ45 connectors on rear I/O
Serial Port	- 1x RS-232/422/485 port on rear I/O - 1x RS-232 port on rear I/O - 4x RS-232 ports on pin header
USB	- 4x USB 3.0 on rear I/O - 2x USB 2.0 on pin header
GPIO	8-bit configurable controlled by embedded controller
Other	Option TPM module with LPC pin header

## DISPLAY

Graphic Controller	Intel® Gen9 graphic engine supports DirectX 12, OpenGL 4.4
Display Interface	- DP: 1x DP port on rear I/O, up to 4K (4096x2304@60Hz) - HDMI: 1x HDMI port on rear I/O, up to 4K (4096x2160@24Hz) - VGA: 1x VGA port on rear I/O, up to 1920x1200 @ 60Hz

## Mechanical & Environment

Dimension	170mm(L) x 170mm(W); 6.69"(L) x 6.69"(W)
Power Supply	24 pin ATX power input (different style)
Environment	- Operation temperature: 0°C~60°C - Storage temperature: -20°C~80°C - Relative humidity: 5%~95%, non-condensing
Certification	CE, FCC Class A
MTBF	Over 120,000 hours at 40°C

