



## ESM-BDW

### 5th Gen Intel® Core™ SoC Processor i7/i5/i3 Type6 COMe Compact Module

- > Onboard 5th Gen Intel® Core™ SoC i7/i5/i3 BGA Processor
- > 2 x 204pin DDR3L SO-DIMM up to 16GB
- > Support Dual Channel LVDS, Display Port, HDMI, VGA, eDP(option)
- > 4 SATA (6.0GB/s), 8 USB 2.0, 2 USB 3.0, 8-bit GPIO
- > Intel 1218LM Gigabit Ethernet
- > HD Audio Interface
- > Type 6 Pin-out

#### + Spec

System	
<b>Processor</b>	Onboard 5th Gen Intel® Core™ i7-5650U 2-Core 2.2GHz processor Onboard 5th Gen Intel® Core™ i5-5350U 2-Core 1.8GHz processor Onboard 5th Gen Intel® Core™ i3-5010U 2-Core 2.1GHz processor
<b>System Memory</b>	2 x 204-Pin DDR3L 1600MHz SO-DIMM up to 16 GB Up to 2 DIMMs & 8GB per DIMM, total 16GB
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Expansion	
<b>Expansion</b>	4 x PCIe1
I/O	
<b>USB</b>	8 x USB 2.0 2 x USB 3.0
<b>SATA</b>	4 x SATA III
<b>COM Port</b>	2 x UART
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x SMBus 1 x LPC 1 x I2C
Display	
<b>Chipset</b>	Intel®GT2 Integrated Graphics
<b>Resolution</b>	HDMI:Max. resolution 4000x2000@ 25Hz LVDS:Max. resolution 1920x1200@ 60Hz VGA:Max. resolution 1920x1200@ 60Hz DP:Max. resolution 3840x2160@ 60Hz
<b>LVDS</b>	CH7511B(eDP to LVDS) CH7517(DP to VGA)
<b>Multiple Display</b>	VGA+LVDS
<b>DDI</b>	HDMI DVI DisplayPort
Audio	
<b>Audio Interface</b>	Intel®High Definition Audio
Ethernet	
<b>Chipset</b>	1 x Intel®I218LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
<b>Power Requirement</b>	+9V ~ +19V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F) (Standard)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	3.7" x 3.7" (95mm x 95mm)
Certifications	
<b>Certification Information</b>	CE FCC Class B
Software Support	
<b>OS Information</b>	Win 8 Win 7



**+** Ordering

EEV-EX14-A2R  
mATX Ev. Board for COMe Type 6 A1.1

ESM-BDW-A1R  
Intel® Core™ SoC Processor i7/i5/i3 Type6 COMe Compact Module

SSD  
Intel® SSD 535 Series (56GB, 120GB, 180GB, 240GB)

