

ESM-BDW

COM Express Module

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

Features

- Onboard 5th Gen Intel® Core™ SoC i7/i5/i3 BGA Processor
- 2 x 204pin DDR3L SO-DIMM up to 8G per DIMM
- Support Dual Channel LVDS, Display Port, HDMI, VGA
- eDP (optional)
- 4 SATA (6.0GB/s)
- 8 USB 2.0, 2 USB 3.0
- 8-bit GPIO
- Intel I218LM Gigabit Ethernet
- HD Audio Interface
- Type 6 Pin-out



Specifications

System

CPU	ESM-BDW-5650: Intel Core i7-5650U CPU, 4M Cache, up to 3.20 GHz ESM-BDW-5350: Intel Core i5-5350U CPU, (3M Cache, up to 2.90 GHz) ESM-BDW-5010: Intel Core i3-5010U CPU, 3M Cache, up to 2.10 GHz
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
System Chipset	SoC Integrated
System Memory	2 x 204-Pin DDR3L 1600MHz SO-DIMM up to 8 GB Up to 2 DIMMs & 8GB per DIMM, total 16GB
Expansion	4 x PCIe x1
OS Support	Win 8, Win 7

I/O

MIO	1 x SMBus, 1 x LPC, 1 x I2C
USB	8 x USB 2.0 and 2 x USB 3.0
DIO	1 x 8-bit GPIO
SATA	4 x SATA III

Display

Chipset	Intel® GT2 Integrated Graphics
Resolution	HDMI:Max. resolution 4000x2000@ 25Hz LVDS:Max. resolution 1920x1200@ 60Hz VGA:Max. resolution 1920x1200@ 60Hz DP:Max. resolution 3840x2160@ 60Hz
LCD Interface	CH7511B(eDP to LVDS) CH7517(DP to VGA)
Multiple Display	VGA+LVDS
LVDS	Dual channel 18/24-bit LVDS Chrontel CH7511B(eDP to LVDS)

Audio

HD Codec	Intel SoC Integrated
----------	----------------------

Ethernet

LAN Chip	Intel® I218LM Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environment

Power Requirement	+9 ~ +19V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temp.	0 ~ 60°C
Storage Temp.	-40°C ~ 75°C
Operating Humidity	0%~90% Relative Humidity, Non-condensing
Dimensions	3.7" x 3.7" (95mm x 95mm)
Weight	TBD

Ordering Info

ESM-BDW-5650	Intel Core i7-5650U CPU, 4M Cache, up to 3.20 GHz
ESM-BDW-5350	Intel Core i5-5350U CPU, 3M Cache, up to 2.90 GHz
ESM-BDW-5010	Intel Core i3-5010U CPU, 3M Cache, up to 2.10 GHz
EEV-EX14	mATX Ev. Board for COMe Type 6 A1.1

* All product specifications and images are subject to change without notice.
Last update: 3/18/2015