



# IMB-154

## Mini-ITX Motherboard

### Spotlight Features

- Intel® Pentium/Celeron Braswell SoC Processor
- Integrated Intel® Gen8 Intel Graphics DX 11\*, OGL3.2
- Supports Dual Channel DDR3L 1333/1600MHz, 2 x SO-DIMM, up to 8GB system memory
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS/eDP
- 4 xUSB 3.0, 4 x USB 2.0, 2 x SATA3
- 1 x mini-PCIe, 1 x mSATA(shared)
- Gigabit LAN : 2 x Realtek Lan
- 1 x TPM Header
- 12V or 19~24V DC in

### Specifications

Processor System	
Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	Intel® Pentium/Celeron Braswell SoC Supports Hyper-Threading Technology Default N3150 Quad core 6W processor
Core Number	(By CPU, Max 4)
Max Speed	(By CPU)
L2 Cache	(By CPU)
Chipset	(By CPU)
BIOS	UEFI
Expansion Slot	
Mini-PCIe	1 (full/half size,supports PCIe x1 and USB device)
mSATA	1 (full size,supports SATA and USB device)
PCIe	1 x PCIe x1 slot
Memory	
Technology	Dual Channel DDR3L 1333/1600 MHz SDRAM
Max.	8GB
Socket	2 x SO-DIMM
Graphics	
Controller	Intel® Gen8 Intel Graphics DX 11*, OGL3.2
VRAM	Shared Memory
VGA	Supports max. resolution 1920 x 1200
LVDS	Dual channel 24-bit co-lay with eDP, max resolution 1920 x 1200@60Hz
HDMI	Supports HDMI 1.4a, max resolution 1920x1200
DVI	No
Display Port	No
Multi Display	Yes (Triple Display)
Ethernet	
Interface	10/100/1000 Mbps
Controller	2 x Realtek RTL8111G
Connector	2 x RJ-45
SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/s)

Rear I/O	
VGA	1
HDMI	1
DVI-I/D	0
Display Port	0
Ethernet	2
USB	4 x USB 3.0
Audio	2 (Mic-in, Line-out)
Serial	3 x RS-232 (COM1/COM2 support RS-422/485)
e-SATA	0
PS/2	PS2 x2, KB & MS stack
Internal Connector	
USB	4 ( 2*2.54 pitch header USB 2.0 compliant)
LVDS/Inverter	1/1
VGA	0
Serial	3* 2.0 pitch header RS-232
SATA	2 x SATA3 (6.0Gb/s)
m-SATA	1(Share with SATA2)
Mini-PCIe	1
Parallel	1 (Co-lay with 8in/8out DIO)
IrDA	0
GPIO	8 x GPI + 8 x GPO
SATA PWR Output Con	1
Speaker Header	1
Watchdog Timer	
Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min
Power Requirements	
Input PWR	12V or 19~24V DC in (4-pin ATX PWR Con) / ATX
Power On	AT/ATX Supported AT : Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready
Environment	
Operating Temperature	0°C – 60°C