



IMB-154B

Mini-ITX Motherboard

Spotlight Features

- Intel® Braswell SoC Processor N3160
- Supports Dual Channel DDR3L SO-DIMM 1333/1600, up to 8GB
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS/eDP
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3, 6 x COM
- 1 x Mini-PCIe, 1 x PCIe x1, 1 x mSATA (shared)
- 2 x Realtek LAN
- 1 x TPM Header
- +12V or +19V~+24V DC-In (4-pin ATX PWR Con/ ATX)

Specifications

Processor System

Dimensions	Mini-ITX (6.7-in x 6.7-in)
CPU	Intel® Braswell SoC Processor N3160, QC, 1.60 GHz, 6 W
Chipset	SOC

Expansion Slot

PCIe	1 x PCIe x1
Mini-PCIe	1 x full/half size with PCIe x1 and USB2.0
M.2	N/A
mSATA	1 x full size with SATA3 and USB2.0

Memory

Technology	Dual Channel DDR3L 1333/1600MHz
Max	8GB
Socket	2 x SO-DIMM

Graphics

Controller	Intel® Gen8 Intel Graphics DX 11*, OGL3.2
VGA	Supports max resolution up to 1920 x 1200
LVDS	Supports max resolution up to 1920 x 1200@60Hz
eDP	N/A
HDMI	Supports max resolution up to 1920 x 1200
DVI	N/A
DisplayPort	N/A
Multi Display	Triple Display

Ethernet

Controller/ Speed	2 x Realtek RTL8111G/RTL8111H-CG with 10/100/1000 Mbps
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Rear I/O

VGA	1
DVI	N/A
HDMI	1
DisplayPort	N/A
Ethernet	2
USB	4 x USB 3.0
Audio Jack	2 (Mic-in, Line-out)
Serial	3 x COM (RS-232/RS-422/485)
PS/2	2 (1 x keyboard, 1 x mouse)

Internal Connector

USB	4 x USB 2.0
LVDS	1
eDP	N/A
VGA	N/A
Serial	3 x COM (RS-232)
SATA	2 x SATA3
Parallel	1 (Co-lay with 8in/8out DIO)
GPIO	8 x GPI + 8 x GPO (shared with LPT header)
SATA PWR Output Con	1
Speaker Header	1
TPM	1 x Header

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
Storage Temperature	-40°C – 85°C

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