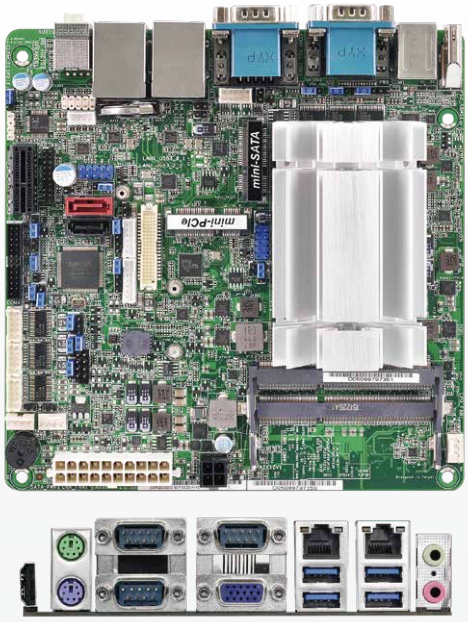
ASRock Industrial — intel IoT Solutions Alliance



IMB-154

Mini-ITX Motherboard

Spotlight Features

- Intel® Braswell SoC Processor
  -IMB-154A (N3710)
  -IMB-154B (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 xUSB 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 -IMB-154A (N3710, QC, 1.60 GHz, 6 W) -IMB-154B (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	
Interface	10/100/1000 Mbps
Controller	2 x Realtek RTL8111G

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

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.