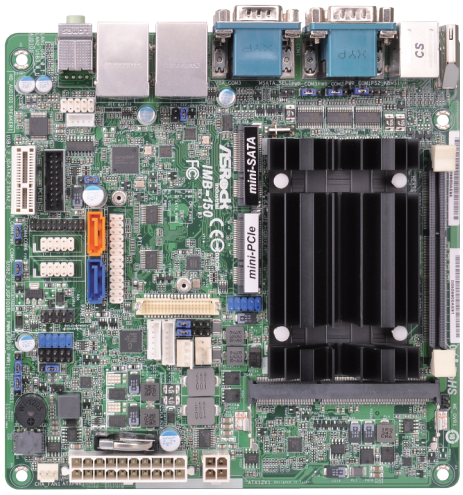
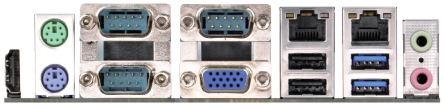
ASRock Industrial

intel IoT Solutions Alliance





IMB-150

Mini-ITX Motherboard

Key Features

- Intel® Baytrail SoC Processor
  -IMB-150D (J1900)
  -IMB-150N (N2930)
- Supports Dual Channel DDR3L SO-DIMM 1333MHz,up to 8GB
- 1 x HDMI, 1 x VGA, 1 x LVDS
- 4 x USB 3.0, 6 x USB 2.0, 2 x SATA2
- 1 x Mini-PCIe, 1 x PCIe x1, 1 x mSATA
- 2 x Realtek LAN
- 1 x TPM Header
- 9-19V DC-In (4-pin ATX PWR Con)

Specifications

Processor System	
Dimensions	Mini-ITX (6.7-in x 6.7-in)
CPU	Intel® Baytrail SoC Processor -IMB-150D (J1900, QC, 2.00 GHz, 10 W) -IMB-150N (N2930, QC, 1.83 GHz, 7.5 W)
Chipset	SoC

Expansion Slot	
PCIe	1 x PCIe x1
Mini-PCIe	1 x half size with PCIe x1
M.2	N/A
mSATA	1 x full size with SATA2 (shared)

Memory	
Technology	Dual Channel DDR3 1333 MHz
Max	8GB
Socket	2 x SO-DIMM

Graphics	
Controller	Intel® Gen7 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 1920x1200
DVI	N/A
DisplayPort	N/A
Multi Display	Dual Display

Ethernet	
Interface	10/100/1000 Mbps
Controller	2 x Realtek RTL8111G-CG

Rear I/O	
VGA	1
DVI	N/A
HDMI	1
DisplayPort	N/A
Ethernet	2
USB	2 x USB 3.0, 2 x USB 2.0
Audio Jack	2 (Mic-in, Line-out)
Serial	3 x COM (RS-232/422/485)
PS/2	2

Internal Connector	
USB	2 x USB 3.0, 4 x USB 2.0
LVDS	1
eDP	N/A
VGA	N/A
Serial	2 x COM (RS-232)
SATA	2 x SATA2
Parallel	1
GPIO	4 x GPI + 4 x GPO
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

Power Requirements	
Input PWR	9-19V DC-In (4-pin ATX PWR Con)
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.