



IMB-154A

Mini-ITX Motherboard

Spotlight Features

- Intel® Braswell SoC Processor N3710
- 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 N3710, 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 |
|-------------------|--|

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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US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660