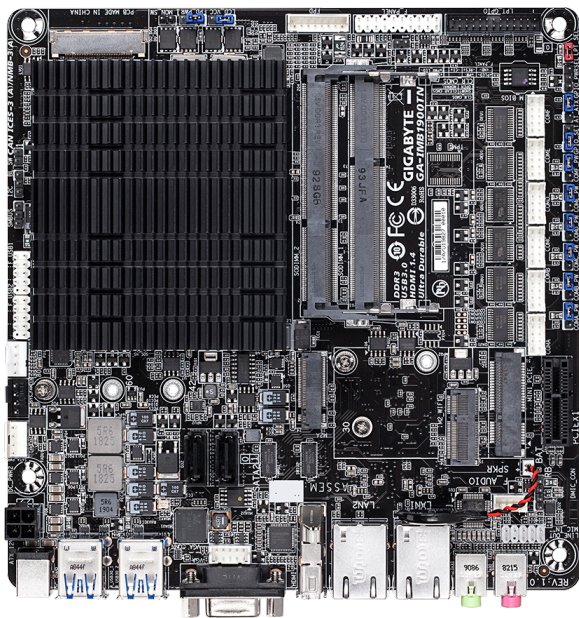


GIGABYTE™

GA-IMB1900TN

Intel® Baytrail SoC Embedded Thin Mini ITX MB

Overview



Rear I/O

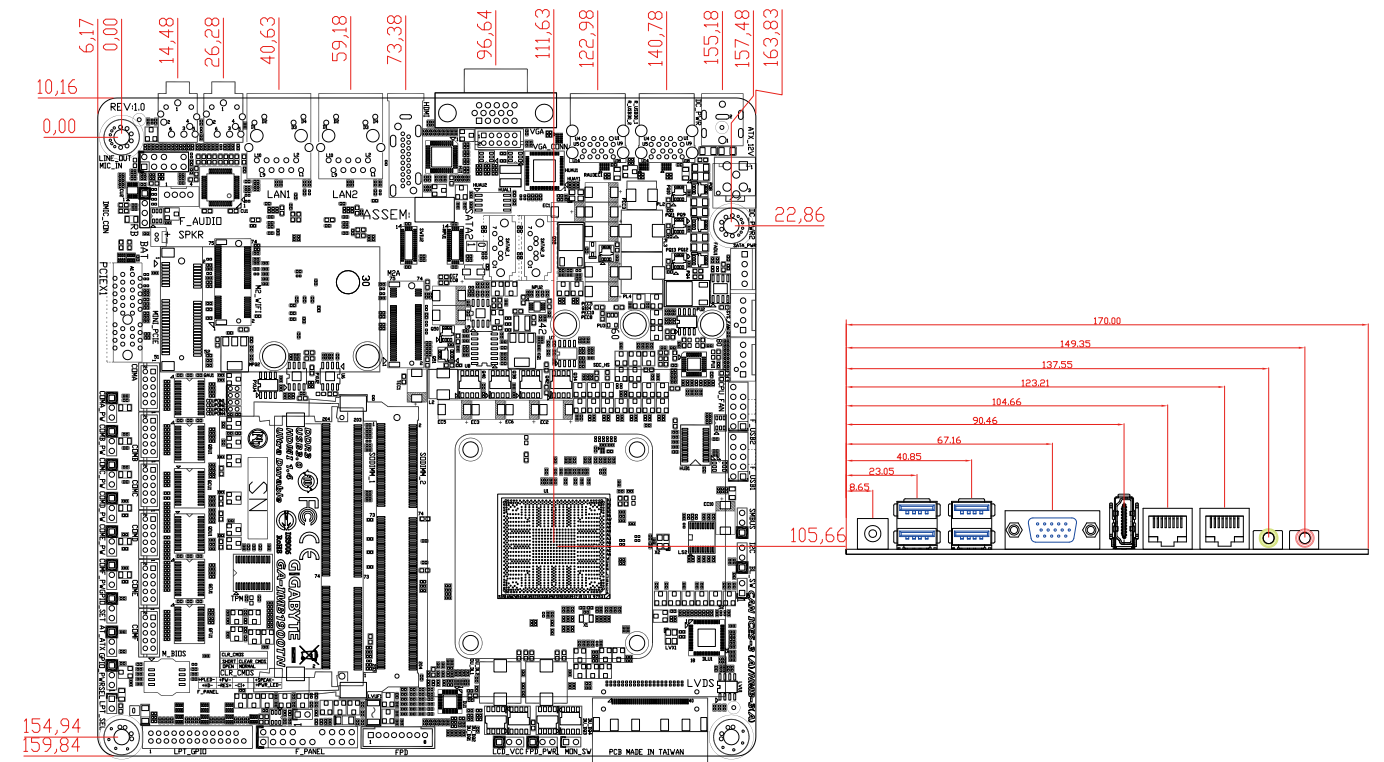
Product Feature

- Thin Mini ITX
- Intel® Celeron Baytrail SoC Processor
- Integrated Intel® Gen7 Intel Graphics DX 10
- Supports Dual Channel DDR3L 1333MHz, 2 x SO-DIMM, up to 16GB system memory
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA2
- 1 x mini-PCIe, 1 x M.2 SSD, 1 x M.2 Wifi slot
- Gigabit LAN : 2 x Intel i211AT Lan
- 1 x TPM Module IC(Optional)
- 12/19~24V DC-in

SPEC

| | | |
|--------------------|-----------------------|---|
| Form Factor | PCB Size | Thin Mini-ITX (6.7-in x 6.7-in) (170 x 170 mm) |
| Processor System | CPU | Intel® Celeron Baytrail SoC |
| | | Supports Hyper-Threading Technology |
| | | Default J1900 Quad core 10W processor |
| Expansion Slot | PCI | 0 |
| | Mini-PCIe | 1x Full size mini-PCIe slot,co-lay with mSATA |
| | PCIe | 1 x PCIe x1 slot |
| | M.2 | 1 x M.2 22/42/60/80 slot for storage 1 x M.2 Wifi slot |
| Memory | Technology | Dual Channel DDR3L 1066/1333 MHz SDRAM 2 x SO-a |
| | Max. | 16G |
| Graphics | Controller | Intel® Gen7 Intel Graphics DX 10*, OGL3.2 |
| | VRAM | Shared Memory |
| | VGA | Supports max. resolution 1920 x 1200 |
| | LVDS | Dual channel 24-bit, max resolution 1920 x 1200@60Hz |
| | HDMI | Supports HDMI 1.4a, max resolution 1920x1200 |
| | DVI | No |
| | Display Port | No |
| | Multi Display | Yes (Dual Display) |
| LAN | Controller | 2 x Intel i211AT Giga LAN |
| SATA | Max DTR | SATA2 (2.0Gb/s) |
| Rear I/O | VGA | 1 |
| | HDMI | 1 |
| | Display Port | 0 |
| | Ethernet | 1 |
| | USB | 4 x USB 3.0 |
| | Audio | 2 (Mic-in, Line-out) |
| | Serial | 0 |
| | Internal Connector | USB |
| | LVDS/Inverter | 1 |
| | VGA | 1 |
| | Serial | 6 x RS-232 (COM1/2 support RS-232/RS-422/485) |
| | SATA | 1 x SATA3 (6.0Gb/s) |
| | Mini-PCIe | 1 (1 x co-lay with mSATA SSD) |
| | Parallel | 1 |
| | Digital I/O | 8 in/8 out |
| | I2C/SMBUS | 1 |
| | SATA PWR Output Con | 1 |
| Watchdog Timer | Output | From Super I/O to drag RESETCON# |
| | Interval | 256 segments, 0,1,2...255sec/min |
| Power Requirements | Input PWR | 12V/19~24V DC-in (4-pin ATX PWR connector co-lay with Phoenix connector) |
| | | AT/ATX Supported |
| | Power On | AT: Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready |
| Power consumption | Typical | J1900, DDR3L 16G, SSD ,3A@12V |
| Certification | EMC | CE/FCC |
| Environment | Operating Temperature | 0°C – 60°C |

Mechanism Drawing



Ordering Information

| Model Name | Ordering Information |
|--------------|--|
| GA-IMB1900TN | J1900, HDMI VGA, Dual channel 24 bit, SATA mSATA, Dual LAN, 4 x USB3.0, 4 x USB2.0 Mini PCIe, M.2 Wifi, M.2 SSD Slot, PCIe x1, DC in 12/19~24V, 0~60, TPM(Optional), 8 in/8 out DIO, I2C, SMBUS |

Optional Accessories

| Part Number | Cable Usage | Description |
|------------------|-------------|--|
| 12CF1-1CM011-01R | COM | 11N1 CB/JST 2*5P/PH2/KIMWELL COM 9MA(PC99)/200mm+SCREW*2 |
| 12CF1-1SATPW-01R | SATA Power | 11N1 CB FOR SATA POWER/KIMWELLS4P/15P*2/300mm Y cable |
| 12CF1-2SAT1B-01R | SATA | 21N1 CB/SATA(S)/BLACK/CODE CPU90*180*1/180*180*1/2H*8P/50 CM |
| 12CF1-1VGA07-01R | VGA | 11N1 VGA 15P FEMALE/BLUE KIMWEJST PH2/2*5/WH/200mm+SCREW*2 |

Chassis Information

| Part Number | Usage | Description |
|------------------|---------|--|
| 24EC5-1TM10A-01R | Chassis | Thin mini ITX chassis Size : 204.6 x 205 x 45 mm |



* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice. * Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration. * All trademarks and logos are the properties of their respective holders. * Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.