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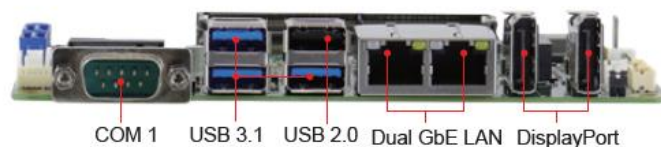
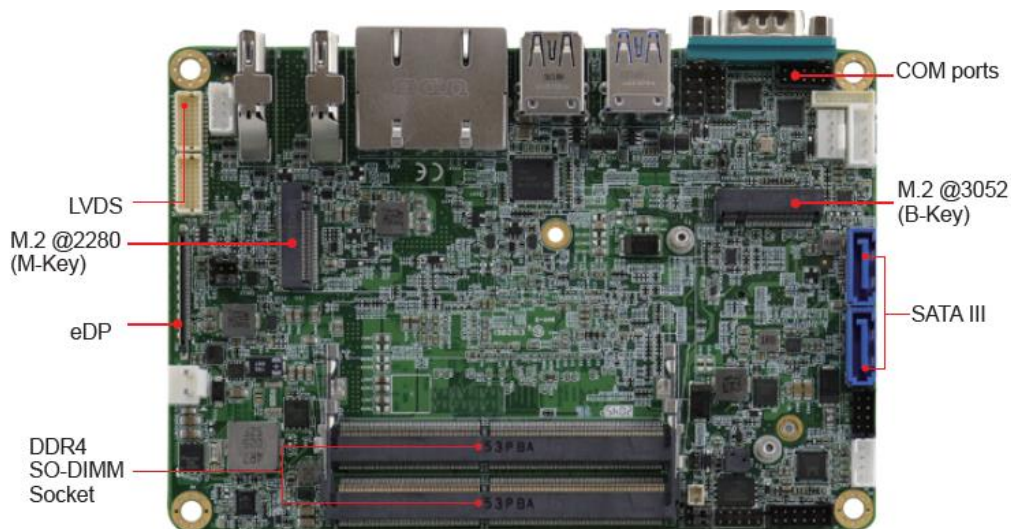
Datasheet

iBASE

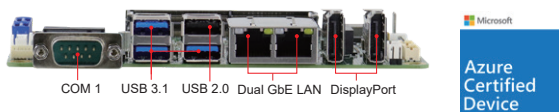
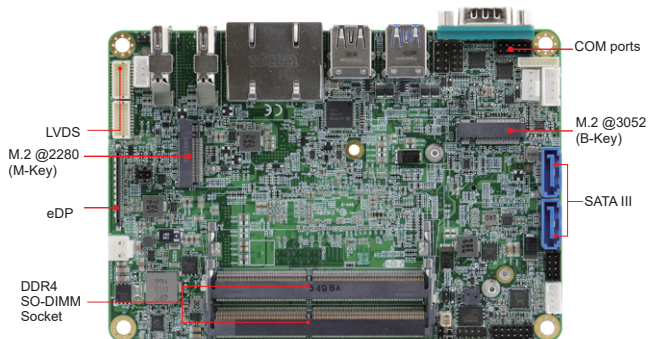
IB953

3,5" Industrial Single-Board Computer with 11th Generation

Intel® Core™ i / Celeron® Tiger Lake Processor



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Features

- Onboard 11th Gen Intel® Core™ i7/i5/i3/ Celeron® processor
- 2x DDR4-3200 SO-DIMM, Max.64GB
- Supports 2x DisplayPort, eDP and 24-bit dual-channel LVDS
- 2x Intel® PCI-E GbE LAN
- 3x USB 2.0, 3x USB 3.1, 2x SATA III
- 3x M.2 sockets (B-Key/ E-Key and M-Key)
- Watchdog timer, Digital I/O, TPM (2.0), 5G compatible



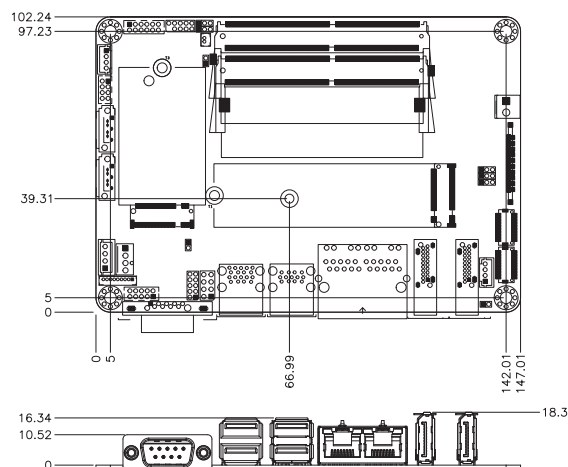
Specifications

| | |
|--------------------------|---|
| CPU | 11th Gen Intel® Core™ i7-1185G7E 11th Gen Intel® Core™ i5-1145G7E 11th Gen Intel® Core™ i3-1115G4E Intel® Celeron® 6305E |
| PCH | Integrated in 11th Gen Intel® Core™ / Celeron® processor |
| Memory Types | DDR4-3200 SO-DIMM, Max. 64GB |
| BIOS | AMI |
| Watchdog Timer | 256 levels |
| H/W Monitor | Yes |
| Storage Device Interface | 1x M.2 (M-Key) |
| Mini Type Slots | 1x M.2 (M-Key, Type:2280, Supports NVMe) 1x M.2 (E-Key, Type:2230, Supports CNVi) 1x M.2 (B-Key, Type:3052, Supports 5G) |
| Graphics Controller | Intel® Gen 12 Graphics |
| Video Output | 2x DisplayPort, eDP and 24-bit dual-channel LVDS |
| Ethernet | IB953AF series: Intel® I219LM Gigabit LAN PHY IB953EF series: Intel® I219V Gigabit LAN PHY Intel® I211AT Gigabit LAN (as 2nd LAN) |
| I/O Chipset | Fintek F81804U-I |
| Serial Port | 2x RS232/422/485 (Jumper-less selection) |
| USB 2.0 | 2x USB2.0 (Pin-header), 1x USB2.0 (Type-A) |
| USB 3.X | 3x USB3.1 (Type-A) |
| Serial ATA | 2x SATA III |
| Audio | Built-in HD with Realtek ALC269 w/ class-D amplifier |
| TPM | TPM (2.0) |
| Others | Digital I/O (4-in/4-out), EuP/ErP, +12V~+24V DC-in (+/-10%), supports IBECC (depend on CPU SKU) |
| Dimensions (L x W) | 102mm x 147mm (4" x 5.8") |
| Power Consumption | Intel® i7-1185G7E 2.8GHz/ w/ 2x16GB DDR4-3200 +12V: 3.71A Intel® i3-1115G4E 3.00GHz w/ 2x16GB DDR4-3200 +12V: 3.26A |
| Operating Temperature | 0°C~60°C |
| Storage Temperature | -20°C~80°C |
| Relative Humidity | 95% (non-condensing@60°C) |

Ordering Information

| | |
|-------------|--|
| IB953AF-I7 | Intel® Core™ i7-1185G7E 3.5" SBC, w/ I211AT GbE LAN + I219LM GbE LAN, VGA (2x DisplayPort + eDP and LVDS), 2x SATA III, 2x COM, 3x M.2 (M2280/ E2230& B3052), DC-in (12V~24V), Supports iAMT 15.0, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS 2) |
| IB953AF-I5 | Intel® Core™ i5-1145G7E 3.5" SBC, w/ I211AT GbE LAN + I219LM GbE LAN, VGA (2x DisplayPort + eDP and LVDS), 2x SATA III, 2x COM, 3x M.2 (M2280/ E2230& B3052), DC-in (12V~24V), Supports iAMT 15.0, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS 2) |
| IB953EF-I3 | Intel® Core™ i3-1115G4E 3.5" SBC, w/ I211AT GbE LAN + I219V GbE LAN, VGA (2x DisplayPort + eDP and LVDS), 2x SATA III, 2x COM, 3x M.2 (M2280/ E2230& B3052), DC-in (12V~24V), TPM (2.0), supports EuP/ ErP, Optional Heatsink, w/o cable kit, (RoHS 2) |
| IB953EF-CEL | Intel® Celeron® 6305E 3.5" SBC, w/ I211AT GbE LAN + I219V GbE LAN, VGA (2x DisplayPort + eDP and LVDS), 2x SATA III, 2x COM, 3x M.2 (M2280/ E2230& B3052), DC-in (12V~24V), TPM (2.0), supports EuP/ ErP, Optional Heatsink, w/o cable kit, (RoHS 2) |
| HSIB953-A | Heatsink for IB953 |
| HSIB953-1 | Heat spreader for IB953 |
| IB76A-2 | Cable kit w/ USB, COM, Power, SATA + Power |

Dimensions and Drawing



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