



Features

- Onboard 13th Gen Intel® Core™ i7-1370PRE mobile processor, supports wide-temp.
- 1x DDR5 SO-DIMM, up to 32GB, supports IB ECC
- supports 2x DP++, LVDS, and eDP
- 2x Intel® I226IT PCIe 2.5G LAN
- 3x USB 2.0, 3x USB 3.2, 2x COM, 2x SATA III
- 3x M.2 slots (M-Key + E-Key + B-Key)
- supports digital I/O (4-in/4-out), fTPM, and watchdog timer



Specifications

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|--------------------------|--|
| CPU | Onboard 13th Gen Intel® Core™ i7-1370PRE processor, support wide-temp |
| PCH | N/A |
| Memory | 1x DDR5 SO-DIMM, Max.32GB, supports IB ECC |
| BIOS | AMI |
| Watchdog Timer | 256 levels |
| H/W Monitor | Yes |
| Storage Device Interface | M.2 (M2280 for NVMe) SATA III |
| Mini Type Slots | 1x M.2 (M-Key, Type:2280, with PCIe (4x) signal only, supports NVMe) 1x M.2 (E-Key, Type:2230, with PCIe (1x) & USB 2.0 signal, supports CNV) 1x M.2 (B-Key, Type:3052, with PCIe (1x) & USB 3.2 signal, supports 5G/LTE |
| Graphics Controller | 13th Gen Intel® Core™ mobile processor integrated graphics |
| Video Output | 2x DisplayPort, eDP, and LVDS |
| Ethernet | 2x Intel® I226IT 2.5G LAN |
| I/O Chipset | Fintek F81804U-I |
| Serial Port | 2x COM (RS232/422/485) |
| USB 2.0 | 3x USB 2.0 (1x Type-A ; 2x via pin headers) |
| USB 3.X | 3x USB 3.2 (Type-A) |
| Serial ATA | 2x SATA III |
| Audio | Integrated HD audio with ALC888S codec |
| TPM | fTPM only |
| Others | Digital I/O (4-in/4-out); +12V~+24V DC-in |
| Dimensions (L x W) | 102mm x 147mm (4" x 5.8") |
| Power Consumption | Intel® Core™ i7-1370PRE processor, Up to 4.8GHz w/ 1x 32GB DDR5-5600 memory +24V: 3.82A |
| Operating Temperature | -40°C~+75°C (-40°F~+167°F) |
| Storage Temperature | -45°C~+80°C (-49°F~176°F) |
| Relative Humidity | 10% ~ 90% (non-condensing) |

Ordering Information

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|---------------|---|
| IB96WAF-I7PRE | Intel® Core™ i7-1370PRE 3.5" SBC, w/ Dual I226IT LAN, VGA (2x DisplayPort + eDP + LVDS), 2x SATA III, 2x COM, 3x M.2 (M2280/ E2230 & B3052), DC in (12V~24V), supports iAMT, fTPM, Optional heatsink, w/o cable kit, (RoHS 2) |
| HSIB96W-B | Heatsink with fan for IB96W |
| HSIB96W-1 | Heat spreader for IB96W |
| IB76A-2 | Cable kit w/USB, COM, Power, SATA + Power |

Dimensions and Drawings

