

IH70

Intel® Core™ i7/i5/i3 Mini-ITX Embedded PC Board



KEY FEATURES

- Intel® 4th. generation Haswell i7/i5/i3 mini pc board
- Up to 16 GB SODIMM DDR3L 1333/1600
- 2 x RJ-45 GigaLAN, 2 x RS-232, 4 x USB 3.0
- 24-bit LVDS (eDP), HDMI (Optional), DVI, VGA
- Expansion 3 x Mini PCIe, 1 x PCI-E (x16)
- Form Factor Mini-ITX (170 x 170 mm)



SPECIFICATIONS

| System Specification | | | |
|----------------------------|---|-------------------------|---|
| Processor | Intel 4th. generation ® Haswell i7/i5/i3 | Chipset | Intel® QM87 |
| Memory | 2 x SO-DIMM, DDR3 1333/1600 MHz, 4GB 8GB (Optional) | Storage | 1 x mSATA SSD 128GB mSATA SSD up to 512GB (Optional) 2 x SATA III SSD / HDD, 1TB / 500GB (Optional) |
| Ethernet controller | 2 x Intel® Ethernet Controller | Operating System | Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional) |
| IO Ports | | | |
| Power Input | 1 x 12V DC, Din4 pin connector | USB Port | 4 x USB3.2 Gen1x1 (Type-A) |
| Serial Port | 1 x RS232/422/485 (Default RS232) 2 x RS232 | Video | 1 x VGA |
| Audio | Mic in Line in Line out | LAN | 2 x Giga LAN RJ45 Connector |
| PS/2 | 2 x PS/2 | | |
| Internal IO Ports | | | |
| Power input | 1 x 4pin(2x2) for 12V DC in | Power output | 2 x 2pin(1x2) red wafer for 5V DC out 1 x 2pin(1x2) yellow wafer for 12V DC out |
| USB | 2 x 8pin(2x4) for 4 x USB 2.0 | Serial port | 3 x (2x5) pin-header RS-232 |
| Display | 1 x 40pin DF13 connector for LVDS 1 x 30pin DF13 connector for eDP (Optional) 1 x 18pin FFC connector for HDMI (Optional) | Backlight | 1 x 7pin(1x7) for panel backlight |
| SATA | 2 x SATA III 1 x 8pin(2x4) for SATA power | DIDO | 1 x 10pin(2x5) for Digital input/output |
| VR | 1 x 3pin(1x3) for Digital panel backlight brightness control | Fan | 1 x 3pin(1x3) for CPU Fan |
| OSD | 1 x 10pin(2x5) for OSD control | Speaker | 2 x 2pin(1x2) for Speaker |
| LPT | 1 x 20pin(2x10) for Parallel Port(LPT) | Backup battery | 1 x 2pin(1x2) for RTC battery |
| Certification | | | |
| Certification | CE, FCC | | |
| Mechanical | | | |
| Dimension | 170 x 170 mm | | |
| Environment | | | |

Operating Humidity 10% to 95% RH, Non-Condensing

Operating Temperature

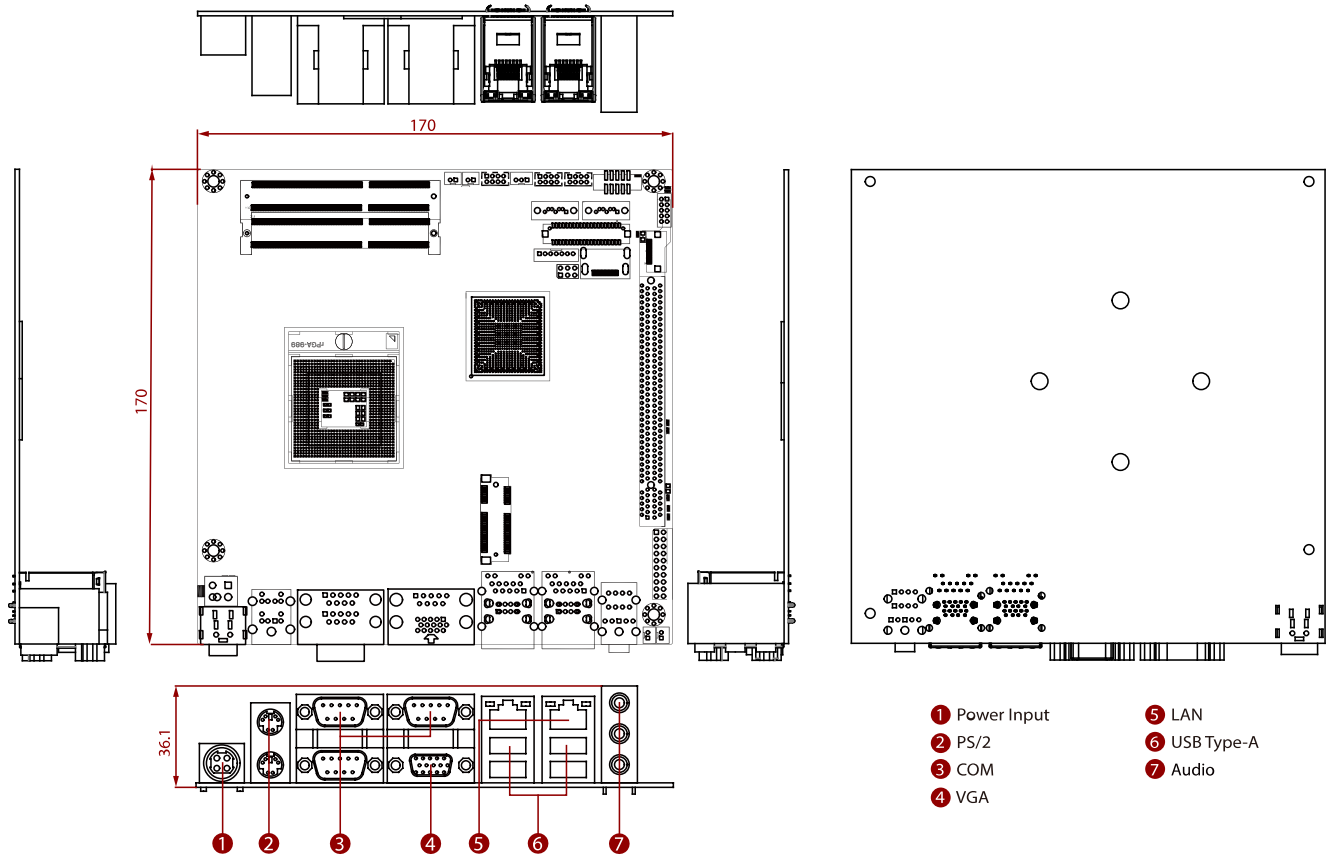
0°C to 60°C

Storage Temperature -40°C to 70°C

Accessory

Optional Accessory Driver CD & Manual (Optional)
Adapter (Optional)

DIMENSIONS UNIT:MM



NOTE

1. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.