

# IH70

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



### KEY FEATURES

- Intel® 4th. generation Haswell i7/i5/i3
- 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			
<b>Processor</b>	Intel 4th. generation ® Haswell i7/i5/i3	<b>Chipset</b>	Intel® QM87
<b>Memory</b>	2 x SO-DIMM, DDR3 1333/1600 MHz, 4GB 8GB (Optional)	<b>Storage</b>	1 x mSATA SSD 64GB mSATA SSD up to 512GB (Optional) 2 x SATA III SSD / HDD, 1TB / 500GB (Optional)
<b>Ethernet controller</b>	1 x Intel® Ethernet Controller I211-AT + Intel® Ethernet Connection I218-LM	<b>Operating System</b>	Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (Optional) Linux Ubuntu 18.04 (Optional)
IO Ports			
<b>Power Input</b>	1 x 12V DC, Din4 pin connector	<b>USB Port</b>	4 x USB3.0 (Type-A)
<b>Serial Port</b>	1 x RS232/422/485 (Default RS232) 2 x RS232	<b>Video</b>	1 x VGA
<b>Audio</b>	Mic in Line in Line out	<b>LAN</b>	2 x Giga LAN RJ45 Connector
<b>PS/2</b>	2 x PS/2		
Internal IO Ports			
<b>Power input</b>	1 x 4pin(2x2) for 12V DC in	<b>Power output</b>	2 x 2pin(1x2) red wafer for 5V DC out 1 x 2pin(1x2) yellow wafer for 12V DC out
<b>USB</b>	2 x 8pin(2x4) for 4 x USB 2.0	<b>Serial port</b>	3 x (2x5) pin-header RS-232
<b>Display</b>	1 x 40pin DF13 connector for LVDS 1 x 30pin DF13 connector for eDP (Optional) 1 x 18pin FFC connector for HDMI (Optional)	<b>Backlight</b>	1 x 7pin(1x7) for panel backlight
<b>SATA</b>	2 x SATA III 1 x 8pin(2x4) for SATA power	<b>DIDO</b>	1 x 10pin(2x5) for Digital input/output
<b>VR</b>	1 x 3pin(1x3) for Digital panel backlight brightness control	<b>Fan</b>	1 x 3pin(1x3) for CPU Fan
<b>OSD</b>	1 x 10pin(2x5) for OSD control	<b>Speaker</b>	2 x 2pin(1x2) for Speaker
<b>LPT</b>	1 x 20pin(2x10) for Parallel Port(LPT)	<b>Backup battery</b>	1 x 2pin(1x2) for RTC battery
Certification			
<b>Certification</b>	CE, FCC		
Mechanical			
<b>Dimension</b>	170 x 170 mm		
Environment			

Operating Humidity 60 °C @ 95% RH, (non-condensing)

Operating Temperature

0~60°C

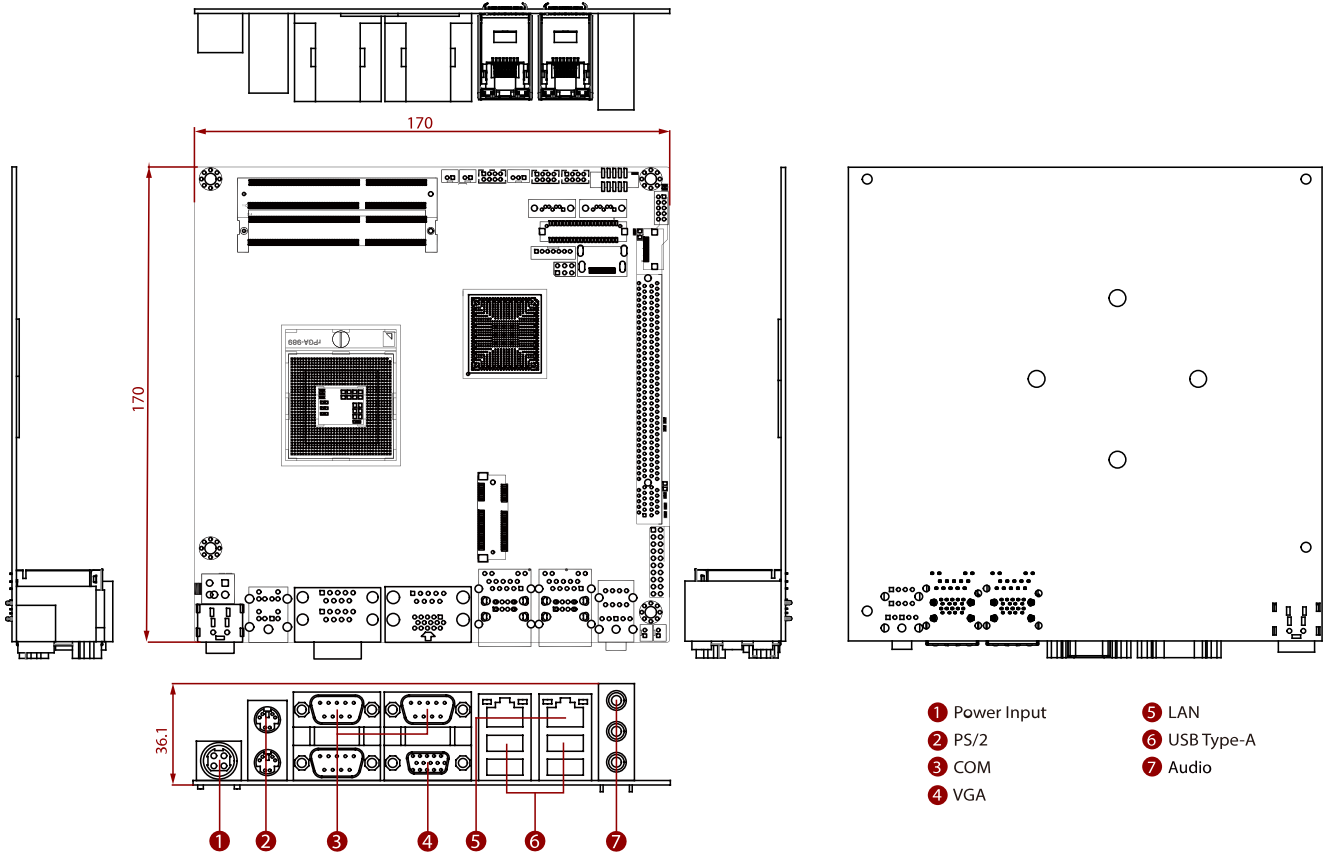
Storage Temperature -40~70°C

### Accessory

Accessory Manual & Driver CD

## DIMENSIONS UNIT:MM

### Winmate Embedded Board IH70



## 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.