

IV70

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



KEY FEATURES

- 3rd Gen. Intel® Core™ i7/i5/i3
- Up to 16 GB DDR3 1333/1600
- 2 x RJ-45 GigaLAN, 2 x RS-232, 4 x USB 3.0
- Dual-channel 24-bit LVDS, VGA, HDMI (Optional), DVI
- Expansion 2 x Mini PCIe, 1 x PCI-E (x16)
- Form Factor Mini-ITX (170 x 170 mm)



SPECIFICATIONS

System Specification			
Processor	Intel 3rd. generation ® Ivy Bridge i7/i5/i3	Chipset	Intel® HM76 Intel® QM77 (Optional)
Memory	2 x SO-DIMM, DDR3 1333/1600 MHz, 4GB 8GB (Optional)	Storage	1 x mSATA SSD 64GB mSATA SSD up to 512GB (Optional) 1 x SATA II SSD / HDD, 1TB / 500GB (Optional) 1 x SATA III SSD / HDD, 1TB / 500GB (Optional)
Ethernet controller	2 x Broadcom Ethernet Controller BCM57780	Operating System	Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (Optional) Linux Ubuntu 18.04 (Optional)
IO Ports			
Power Input	1 x 12V DC, Din4 pin connector	USB Port	4 x USB3.0 (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	1 x SATA II 1 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
Backup battery	1 x 2pin(1x2) for RTC battery		
Certification			
Certification	CE, FCC		
Mechanical			

Dimension 170 x 170 mm

Environment

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

Operating Temperature 0~60°C

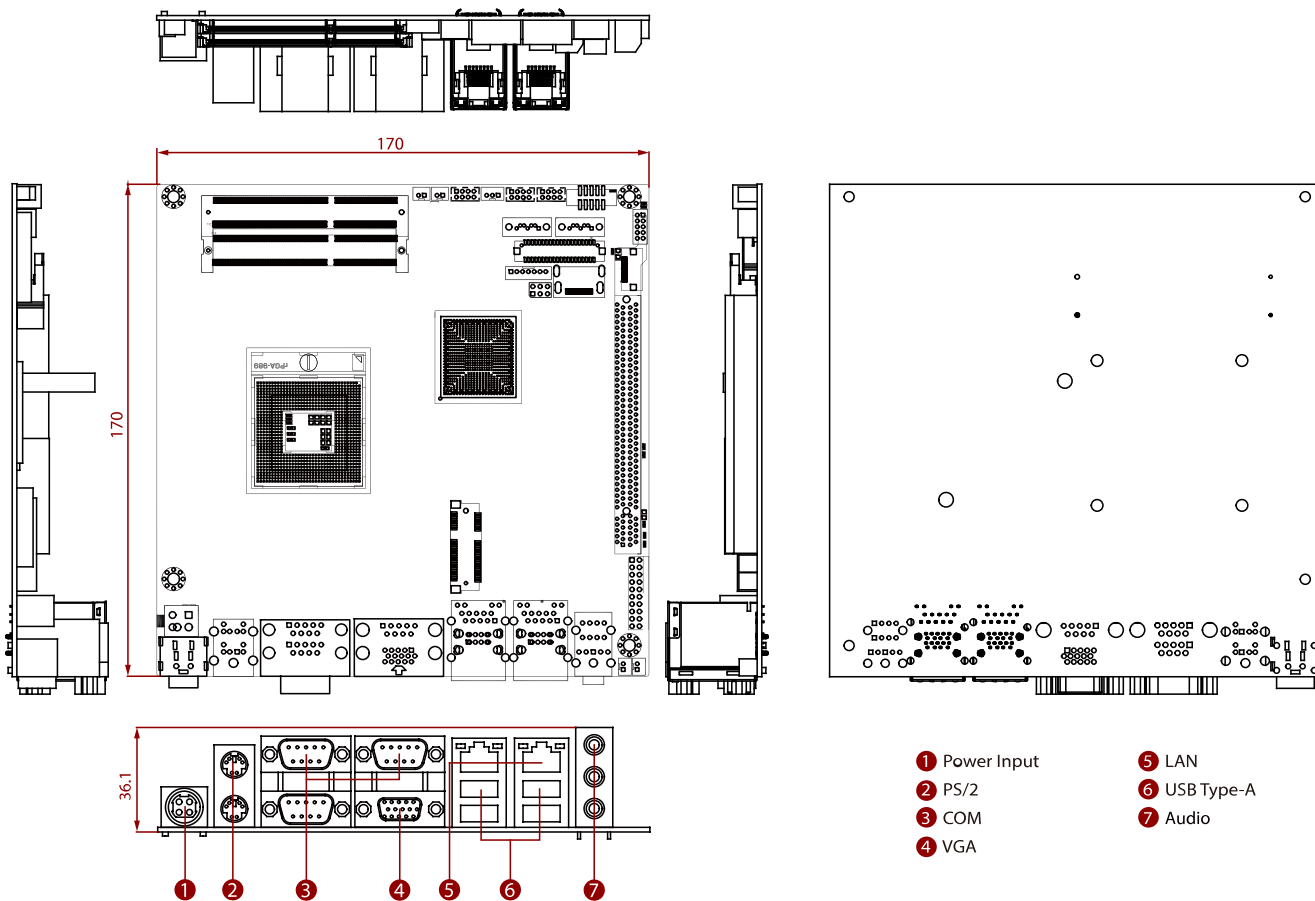
Storage Temperature -40~70°C

Accessory

Accessory Manual & Driver CD

DIMENSIONS UNIT:MM

Winmate Embedded Board IV70



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.