

IT70

Intel® Core™ i5 Mini-ITX Embedded PC Board



KEY FEATURES

- Mini-ITX Form Factor (170 x 170 mm)
- Intel® 11th Generation Core™ i5 processor Mini ITX Embedded PC Board
- Support UHD 4 lanes eDP Panel
- 2 × DDR4 3200 MHz SO-DIMM (Max. 64 GB)
- Integrated Dual Gigabit Ethernet
- 1 x SATAIII, 4 x USB 3.2, 4 x USB 2.0



SPECIFICATIONS

System Specification

Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	Memory	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) 16GB (Optional) 32GB (Optional) 2 x SO-DIMM, DDR4 3200 MHz, 4GB (Optional) 8GB (Optional) 16GB (Optional) 32GB (Optional) 64GB (Optional)
Storage	1 x M.2 M-Key 2242 SATA SSD or 1 x M.2 M-Key 2280 NVMe SSD 128GB 256GB (Optional) 512GB (Optional) 1TB(for NVMe) (Optional) 2TB(for NVMe) (Optional) 4TB(for NVMe) (Optional) 1 x SATA III , up to 2TB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Security	TPM 2.0	Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 22.04 (Optional)

IO Ports

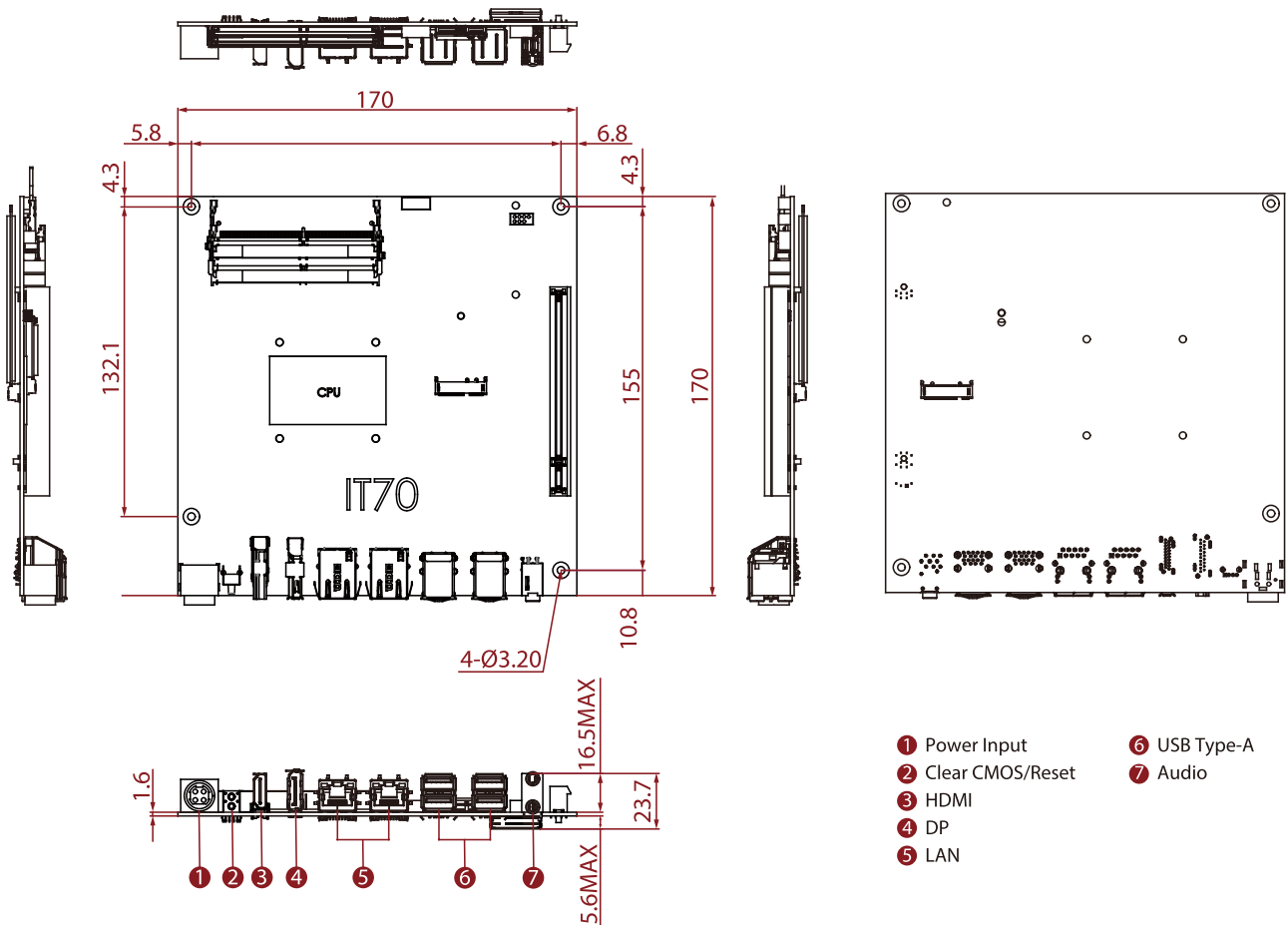
Power Input	1 x 12V DC, Din4 pin connector	USB Port	4 x USB3.2 Gen2x1 (Type-A)
Video	1 x DP1.4 1 x HDMI 2.0 (Optional)	Audio	Mic in Line out
Expansion Port	1 x M.2 2242/2280 Key M slot for SATA/NVMe SSD 1 x M.2 2230 Key E slot for WiFi (Optional)	LAN	2 x Giga LAN RJ45 Connector

Internal IO Ports

Power input	1 x 6pin(1x6) 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 USB2.0	Serial port	2 x 10pin(2x5) for RS232 2 x 10pin(2x5) for RS232/422/485
Display	1 x 40pin DF13 connector for LVDS 1 x 40pin DF13 connector for eDP(Support the UHD, 4 lanes eDP) (Optional)	Backlight	1 x 7pin(1x7) for panel backlight
SATA	1 x SATA III 1 x 8pin(2x4) for SATA power (SATAIII is only available when M.2 NVMe is not in	DIDO	1 x 14pin(2x7) for Digital input/output

VR	1 x 3pin(1x3) for Digital panel backlight brightness control 1 x 3pin(1x3) VR/Software brightness switch jumper 1 x 3pin(1x3) PWM/DC brightness switch jumper 1 x 3pin(1x3) 3.3V/5V PWM Level switch jumper	Fan	1 x 3pin(1x3) for CPU Fan 1 x 3pin(1x3) for System Fan
OSD	1 x 10pin(2x5) for OSD control	Speaker	2 x 2pin(1x2) for Speaker
Backup battery	1 x RTC battery holder	BIOS debug	1 x 10pin(2x5) for LPC debug
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. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. 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.