

IK70

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



KEY FEATURES

- Socket LGA1151 for Intel® Core™ i7/ i5/ i3 Processor, Mini ITX Embedded Board
- Mini ITX Form Factor (170 x 170 mm)
- DDR4 2400MHz SO-DIMM support up to 64GB
- 12V Single Voltage Power Input
- Multi display supports DP / HDMI (Optional) / LVDS / eDP panel interface
- Optional PCIE 3.0 x 16 slot

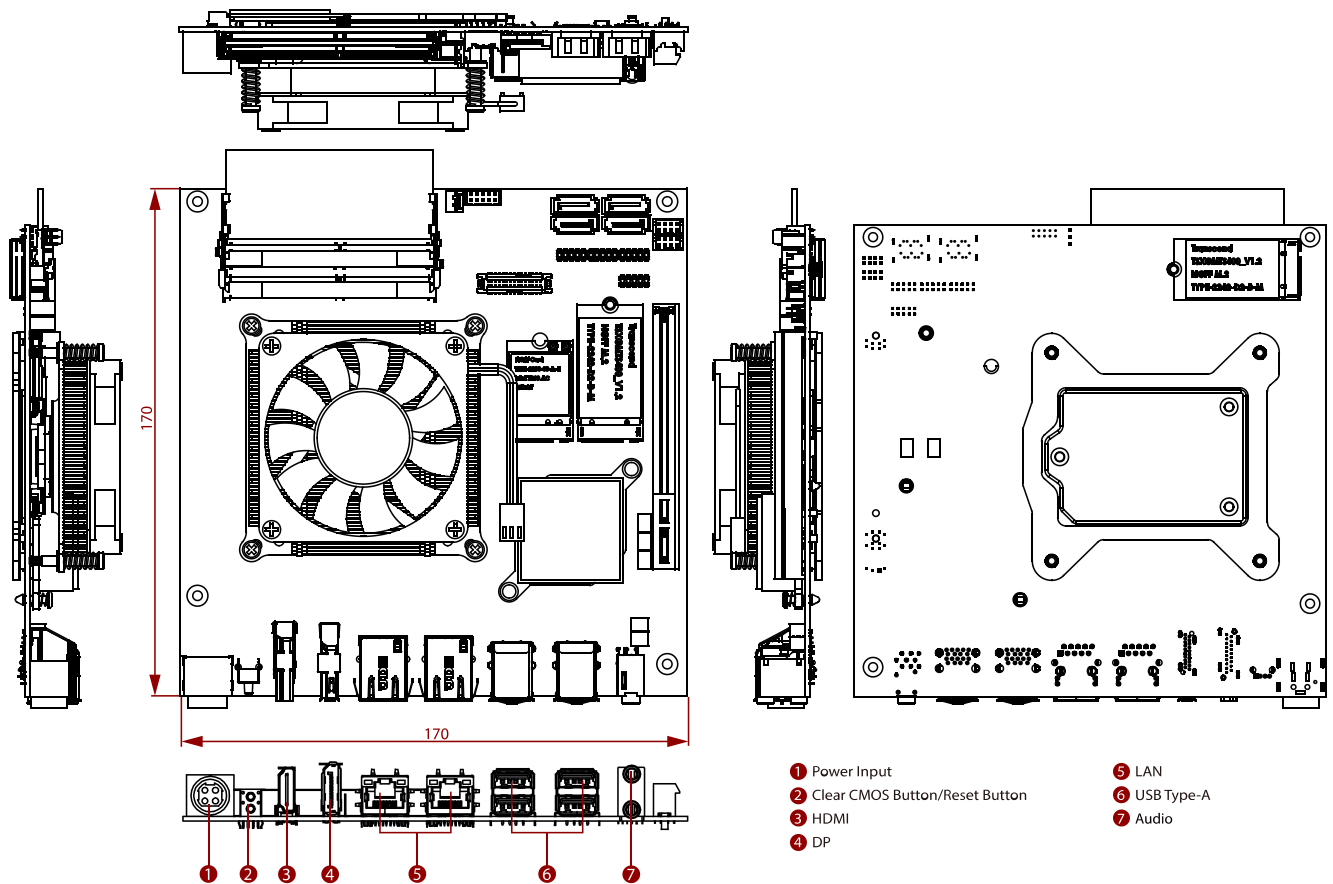


SPECIFICATIONS

System Specification			
Processor	Intel Core i7-7700T 2.9 GHz (up to 3.8GHz) Intel Core i5-7500T 2.7GHz (up to 3.3GHz) (Optional) Intel Core i3-7100T 3.4GHz (Optional)	Chipset	Intel® C236
Memory	1 x SO-DIMM, DDR4 2166 MHz, 4GB 8GB (Optional) 16GB (Optional) 32GB (Optional) 2 x SO-DIMM, DDR4 2166 MHz, 4GB (Optional) 8GB (Optional) 16GB (Optional) 32GB (Optional) 64GB (Optional)	Storage	1 x M.2 2242 B-key SSD 128GB. M.2 2242 B-key SSD Up to 512GB. (Optional) 1 x 2.5" SSD / HDD (Optional) 2 x SATA III support RAID 0,1 (Optional)
Ethernet controller	2 x Intel® Ethernet Controller	Security	TPM 2.0
Operating System	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)
Video	1 x DP1.2 1 x HDMI 1.4 (Optional)	Audio	1 x Mic in 1 x Line out
Expansion Port	1 x M.2 2242 Key B slot for 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 4pin(2x2) for 12V DC in 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 USB 2.0	Serial port	1 x 10pin(2x5) for RS232 1 x 10pin(2x5) for RS232/422/485 1 x RS232 & 1 x RS232/422/485 (Optional)
Display	1 x 40pin DF13 connector for LVDS 1 x 30pin DF13 connector for eDP (Optional)	Backlight	1 x 7pin(1x7) for panel backlight
SATA	2 x SATA III 1 x 8pin(2x4) for SATA power 2 x SATA III & 1 x SATA power (Optional)	DIDO	1 x 10pin(2x5) 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	2 x 3pin(1x3) for 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	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.