

IAD70

Intel® Core™ Alder Lake LGA 1700 Mini-ITX Embedded SBC



KEY FEATURES

- 12th Gen Intel® Core™ Alder Lake S Socket LGA 1700 i9 / i7/ i5 / i3 processor
- 2 x SODIMM, DDR5 4800MHz, support up to 64GB (Max. 32GB for each slot)
- Multi display supports DP 1.4a / HDMI 2.0b (Optional)
- 2 x Intel® Ethernet Controller
- 12 V Single Voltage Power Input
- Mini ITX Form Factor (170 x 170 mm)

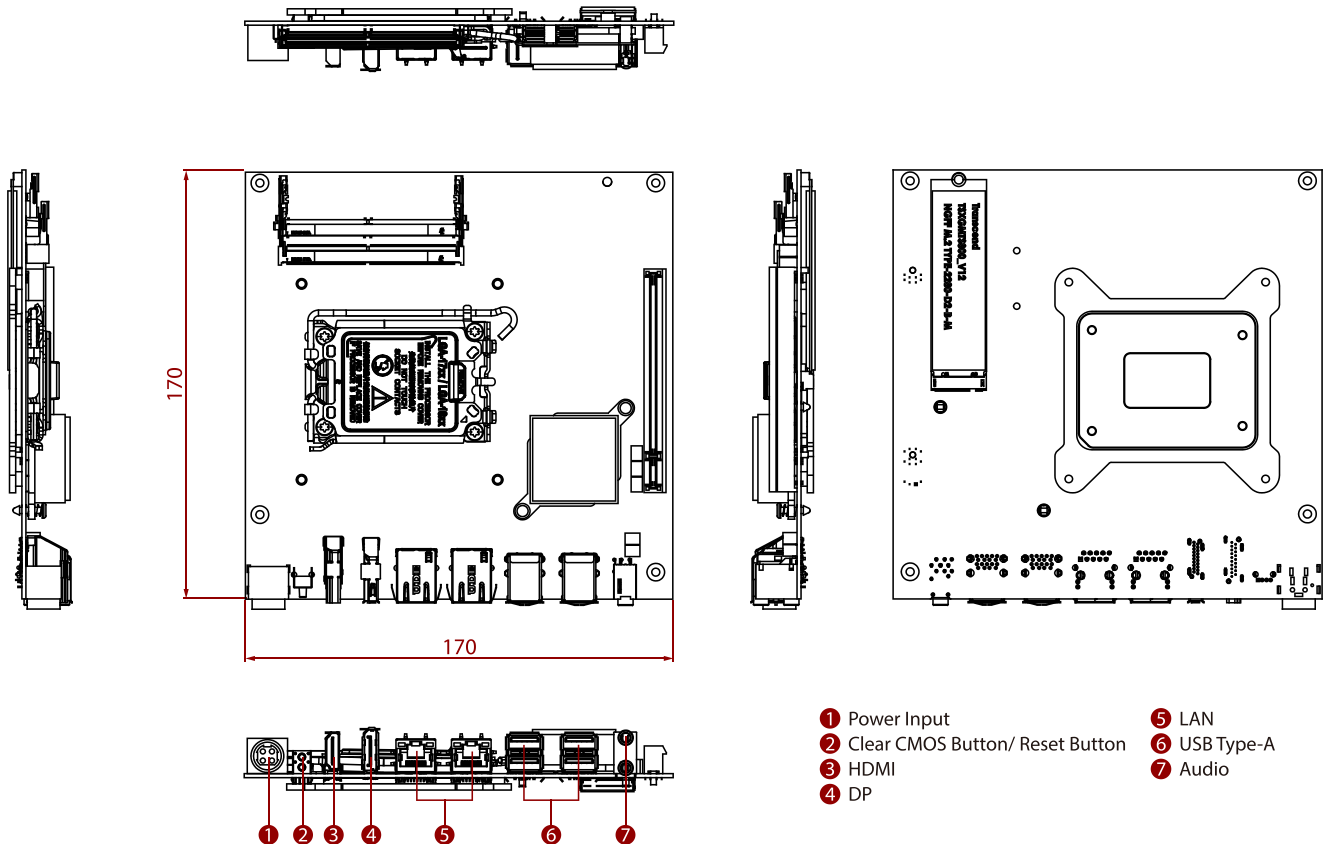


SPECIFICATIONS

System Specification			
Processor	Intel® Core™ i5-12500TE(up to 4.3GHz) Intel® Core™ i9-12900TE(up to 4.80GHz) (Optional) Intel® Core™ i7-12700TE(up to 4.6GHz) (Optional) Intel® Core™ i3-12100TE(up to 4.00GHz) (Optional)	Chipset	Intel® Q670 Intel® H610 (Optional) Intel® R680E (Optional)
Memory	2 x SO-DIMM, DDR5 4800 MHz, 8GB 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) 2 x SATA III (Only R680E/Q670 version support) (RAID support) (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 USB 3.2 Gen2x1 (10Gbps, TypeA) (R680E/Q670 version) 4 x USB 3.2 Gen1x1 (5Gbps, TypeA) (H610 version)
Video	1 x DP1.4a DP++ , Max resolution up to 4096x2160@60Hz 1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)	Audio	Mic in Line out
Expansion Port	1 x M.2 (Key E) with PCIe x1, USB 2.0 for wireless 1 x M.2 (Key M, 2242/2280) with PCIe or SATAIII for SSD 1 x PCIe 5.0 (x16) slot	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 30pin DF13 connector for eDP 1.4a , Max resolution up to 1920 x 1200@60Hz (Optional)	Backlight	1 x 7pin(1x7) for panel backlight
SATA	2 x SATA III 1 x 8pin(2x4) for SATA power (Only R680E/Q670 version support)	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		
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.