

ARES-1983H-FL

Compact Fanless Computer supports Intel® 14th/13th/12th Gen. Core™ 35W Processors



Features

- Socket LGA1700 for Intel® 14th/13th/12th Core™ 35W Processors
- Fanless Design
- Supports 6 x USB & 3 x LAN
- Dual-Display for 1 x VGA and 1 x DisplayPort
- M.2 M-Key Slot supporting SATA & NVMe(Gen4 x4) Interfaces
- 2 x Internal USB 2.0 Type-A ports for HW License Key & Security Dongle

System

CPU	Intel® 14 th /13 th /12 th Core™ processors in LGA1700 Socket (Max. 35W)
Memory	1 x 262-pin DDR5 SO-DIMM sockets, supporting 4800/5600MHz SDRAM up to 32GB
Chipset	Intel® H610E
Graphics	Integrated Intel® UHD Graphics 730/770
LAN Chipset	1 x Intel® i226LM
	1 x Intel® i219LM
	1 x Intel® i210AT
Watchdog Timer	1~255 levels reset
TPM	dTPM 2.0

I/O

Serial Port	1 x RS232
	1 x RS232 _(Default) /422/485
USB Port	2 x USB-A 3.2 Gen2 (10Gbps)
	2 x USB-A 3.2 Gen1 (5Gbps)
	2 x USB-A 2.0
	2 x Internal USB-A 2.0
LAN	1 x 2.5GbE ports
	2 x GbE ports
Video Port	1 x DisplayPort 1.4 (DP++), up to 4096x2304@60Hz
	1 x VGA, up to 1920x1200@60Hz
Expansion Bus	1 x M.2 E-key 2230 slot (PCIe 3.0 x1 + USB2.0 + CNVi)
	1 x mPCIe (PCIe 3.0 x1 + USB 2.0, Full size) w/ 1 x nano SIM card slot
Others	4 x Antenna holes

Storage

Type	1 x M.2 M-key 2242/2280 slot (PCIe 4.0 x4 + SATA)
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Power Requirement

Power Input	DC 12~24V via 2-pin terminal block
Max. Power Consumption	80W

Environmental

Operating Temp.	-20 ~ 60°C, ambient w/ air flow
Storage Temp.	-30 ~ 70°C
Operating Humidity	10-95% @ 60°C (non-condensing)
Vibration	5~500Hz 3 Grms X,Y,Z axis w/ SSD, according to IEC 68-2-64
Shock & Crash	10G peak acceleration (11 m sec. duration), operation
	30G peak acceleration (11 m sec. duration), nonoperation
	According to IEC 68-2-27

Qualification

Certification	CE, FCC Class A
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Mechanical

Construction	Metal + Aluminum
Mounting	Wall-mount (standard) DIN-rail (optional w/ CTOS bracket)
Weight	2.5kg
Dimensions (W x D x H)	55 x 164 x 210mm

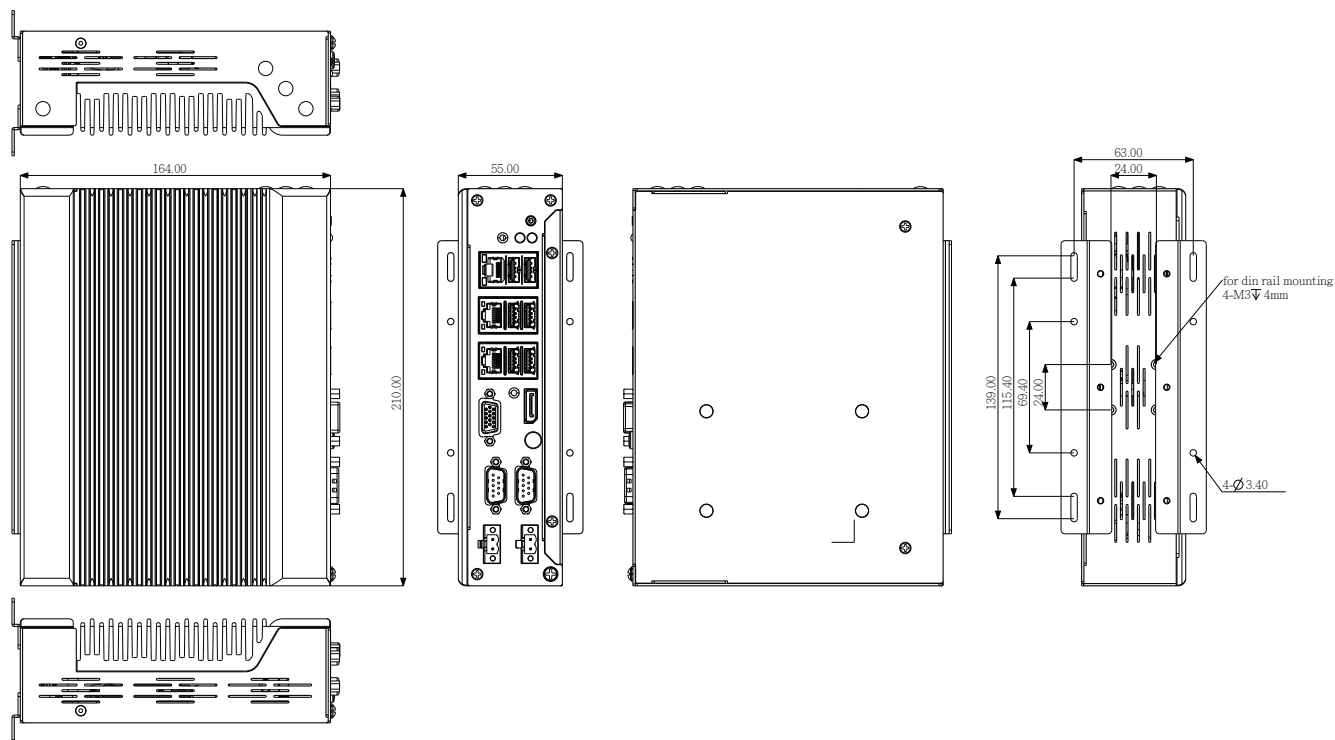
OS Support

Windows 10 / Windows 11 / Ubuntu

Ordering Information

ARES-1983H-FL ARES-1983 w/ H610E Chipset, 3 x LAN, 2 x COM, 6 x USB, 1 x DP, 1 x VGA, 1 x M.2 E-Key, 1 x mPCIe & 1 x M.2 M-Key

Dimensions



Standard Accessories

WMK-1973 Wall Mounting Bracket Kit for ARES Series



Optional Configuration (*CTOS Kit)

PAC-120W6B-FSP-ES 19V/6.3A, 120W AC/DC Adapter Kit



WiFi-RT1550 Realtek RTL8852CE M.2 2230 Wi-Fi 6E + BT 5.4 Module Kit (w/ 2 x 30cm RF Cable)



ANT-T15 1 x Wi-Fi 6E Tri-band 2.4G/5G/6G Dipole Antenna Kit



ANT-H11 1 x 2dBi HSUPA Antenna Kit



LTE-4450 Quectel EG25-G mPCIe LTE Cat 4 Module Kit (for Global, w/ 1 x 25cm RF Cable)



MK-5C-8G/16G/32G DIMM Memory ASSY Kit 8G/16G/32G DDR5 Memory Kit (w/ Heatsink)



DRK-002 DIN Rail Mounting Bracket Kit for ARES Series



*CTOS means Configure-to-Order Service.



Optional Configuration (*CTOS Kit)

Intel® Core™ i9-14900T	Intel® 14 th Gen. 35W processor, 24C/32T, 1.1GHz, L2: 32MB
Intel® Core™ i7-14700T	Intel® 14 th Gen. 35W processor, 20C/28T, 1.3GHz, L2: 28MB
Intel® Core™ i5-14500T	Intel® 14 th Gen. 35W processor, 14C/20T, 1.7GHz, L2: 11.5MB
Intel® Core™ i3-14100T	Intel® 14 th Gen. 35W processor, 4C/8T, 2.7GHz, L2: 5MB
Intel® Core™ i9-13900TE	Intel® 13 th Gen. 35W processor, 24C/32T, 1GHz, L2: 32MB
Intel® Core™ i7-13700TE	Intel® 13 th Gen. 35W processor, 16C/24T, 1.1GHz, L2: 24MB
Intel® Core™ i5-13500TE	Intel® 13 th Gen. 35W processor, 14C/20T, 1.3GHz, L2: 11.5MB
Intel® Core™ i3-13100TE	Intel® 13 th Gen. 35W processor, 4C/8T, 2.4GHz, L2: 5MB
Intel® Core™ i9-12900TE	Intel® 12 th Gen. 35W processor, 16C/24T, 1.1GHz, L2: 14MB
Intel® Core™ i7-12700TE	Intel® 12 th Gen. 35W processor, 12C/20T, 1.4GHz, L2: 12MB
Intel® Core™ i5-12500TE	Intel® 12 th Gen. 35W processor, 6C/12T, 1.9GHz, L2: 7.5MB
Intel® Core™ i3-12100TE	Intel® 12 th Gen. 35W processor, 4C/8T, 2.1GHz, L2: 5MB

**CTOS means Configure-to-Order Service.*