



ARES-2100 Series

Ultra Compact Fanless BOX PC w/ Intel® Core™ Series 3 Processors



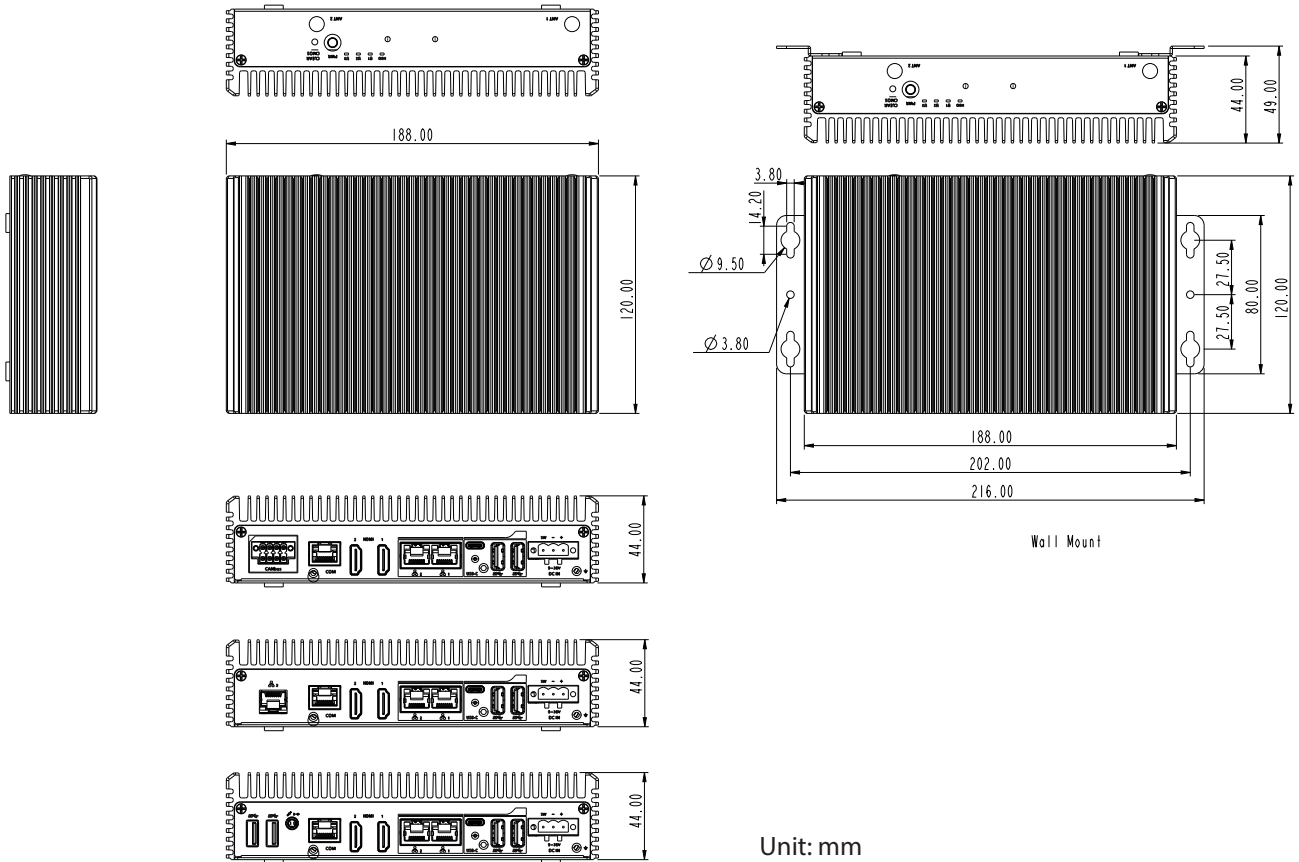
Features

- Intel® Core™ Series 3 Processors
- Integrated NPU for AI acceleration (Up to 17 NPU TOPS)
- Ultra-Compact & Fanless Design
- Supports up to 3 x USB Ports (up to 5 x USB ports via expansion)
- Supports 2 x 2.5GbE LAN Ports (up to 3 x 2.5GbE via expansion)

System	
CPU	Intel® Core™ Series 3 Processors
Memory	1 x 262-pin DDR5 SO-DIMM socket up to 64GB
Chipset	SoC
Graphics	Intel® Graphics
LAN Chipset	Intel® i226-LM
Watchdog Timer	1~255 levels reset
TPM	TPM 2.0 (fTPM/dTPM)
I/O	
Serial Port	1 x RS232/422/485 (via RJ45 connector)
USB Port	2 x USB-A 3.2 Gen2
	2 x USB-A 2.0 (ARES-2100-JC1 only)
	1 x USB-C 3.2 supports DP Alt. (3840 x 2160 @ 60Hz) & 10W power output (5V/2A)
LAN	ARES-2100-LAN: 3 x 2.5GbE ports
	ARES-2100-CAN: 2 x 2.5GbE ports
	ARES-2100-JC1: 2 x 2.5GbE ports
Video Port	2 x HDMI 2.0 (up to 3840 x 2160 @60Hz)
	1 x USB-C 3.2 (up to 3840 x 2160 @60Hz) support DP Alt. support up to 3 x simultaneous displays
Expansion	1 x M.2 E-Key 2230 Slot (PCIe Gen4 x1)
	1 x M.2 B-Key 2242/3042 Slot (PCIe x1, USB3.0/USB2.0) + SIM Slot for LTE, via expansion card (ARES-2100-JC1 only)
CANBus (ARES-2100-CAN only)	2 x 2kV isolated CAN FD via terminal block
Audio (ARES-2100-JC1 only)	1 x Line-out & Mic-in combo jack

Storage	
Type	1 x M.2 M-key 2242/2280 slot (PCIe Gen4 x2)
	Onboard UFS 3.1 (optional, up to 256GB)
Power Requirement	
Power Input	DC 9~36V, DC in + Remote Switch
Power Consumption	Max. 90W
Environmental	
Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 176°F)
Operating Humidity	10 ~ 95% @ 60°C (non-condensing)
Vibration	MIL-STD-810H, Method 514.8, Category 4, operating
Shock & Crash	MIL-STD-810H, Method 516.8, Procedure I, functional shock=20g, operating
Qualification	
Certification	CE, FCC Class A
Mechanical	
Construction	Metal + Aluminum
Mounting	Wall-mount (standard)
	DIN-rail (optional w/ CTOS bracket)
	VESA (optional w/ CTOS bracket)
Weight	1.1 kg
Dimension (W x H x D)	188 x 44 x 120 mm (7.40" x 1.73" x 4.72")
OS Support	
Windows11/ Ubuntu	

Dimension



Standard Accessories

CLB-2100	Cable-Lock Bracket for ARES-2100 Series
WMK-2100	Wall Mounting Bracket Kit for ARES-2100 Series
CBL-MD-5107089	COM Cable DB9P/M to RJ-45

Optional Configuration

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

ARES-2100-304-LAN	ARES-2100 w/ Core 3 304, 3 x LAN, 3 x USB, 2 x HDMI, 1 x COM, 1 x M.2 M-Key, 1 x M.2 E-Key
ARES-2100-304-CAN	ARES-2100 w/ Core 3 304, 2 x CAN FD, 2 x LAN, 3 x USB, 2 x HDMI, 1 x COM, 1 x M.2 M-Key, 1 x M.2 E-Key
ARES-2100-304-JC1	ARES-2100 w/ Core 3 304, 1 x AUDIO JACK, 2 x LAN, 5 x USB, 2 x HDMI, 1 x COM, 1 x M.2 M-Key, 1 x M.2 E-Key, 1 x M.2 B-Key