VBOX AI500-TW SERIES



FEATURES

- Intel® Processor Twin Lake Series Processor
- Intel® UHD Graphics
- 1x Memory Socket (Capacity Max. Up to 16GB DDR5 4800 MT/s)
- 1x COM1 (RS-232/422/485), 1-COM2 (RS-232)
- 2 x Intel® Ethernet Controller
- 2 x Display (HDMI 2.0b, DP1.4a)
- 2 x Audio Jack (Mic-In, Line-Out)
- 2 x Storage (2.5" Driver Bay, Key-B)
- 2 x Expanslot Slot (M.2 Key-E, Key-B)

4K Full HD
HDMI+DP
4K@60Hz

Ruggedized
Design

Fanless
0~60°C

+12/24Vdc

Compact Size
177x126x57mm

SPECIFICATIONS

System Information	
Processor	Intel® Twin Lake Processors Intel® Processors N150 (Default)
System Memory	1 x 262-pin DDR5 4800MHz SO-DIMM socket, Max. up to 16GB
Watchdog Timer	H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step
TPM	On Board TPM 2.0

Expansion	
M.2	1 x M.2 Key-B, (3042/3052/2242 (PCIe x1, USB 3.2 GEN1, USB 2.0) 1 x M.2 Key-E, (2230, 1 x PCI-E x1, USB 2.0 Signal)

Storage	
M.2	1 x M.2 Key-B 2242 SSD (PCIe x 1)
2.5 Drive Bay	1 x Internal 2.5” Drive Bay (7mm)

Front I/O	
USB	2 x USB2.0
Power Button	1 x Power Button w/LED
Reset Button	1 x Reset Button
LED Indicator	1 x Power on/off LED
Audio	1 x Mic-in 1 x Line-out

Rear I/O	
USB	3 x USB 3.2 Gen2 1 x USB 2.0
COM Port	2 x RS232
LAN Port	2 x RJ-45 (2.5GbE)
DP	1 x DP 1.4a
HDMI	1 x HDMI 2.0b
Antenna	2 x Antenna Mounting with Dust Protection Cover
AC/DC Input	1 x Lockable DC Jack

Left I/O	
Antenna	1 x Antenna w/cover

Display	
Graphic Chipset	Intel® UHD Graphics
Resolution	1 x HDMI 2.0b Max resolution 4096 x 2160@60Hz 1 x DP 1.4a Max resolution 4096 x 2160 @60Hz

Power Requirement	
Voltage Input Spec.	Typical +12V/24V
Voltage Input Connector	Lockable DC Jack
Power Mode	AT/ATX (ATX is Default Setting)
Adapter	AC to DC Adapter, 12V/10A 120W

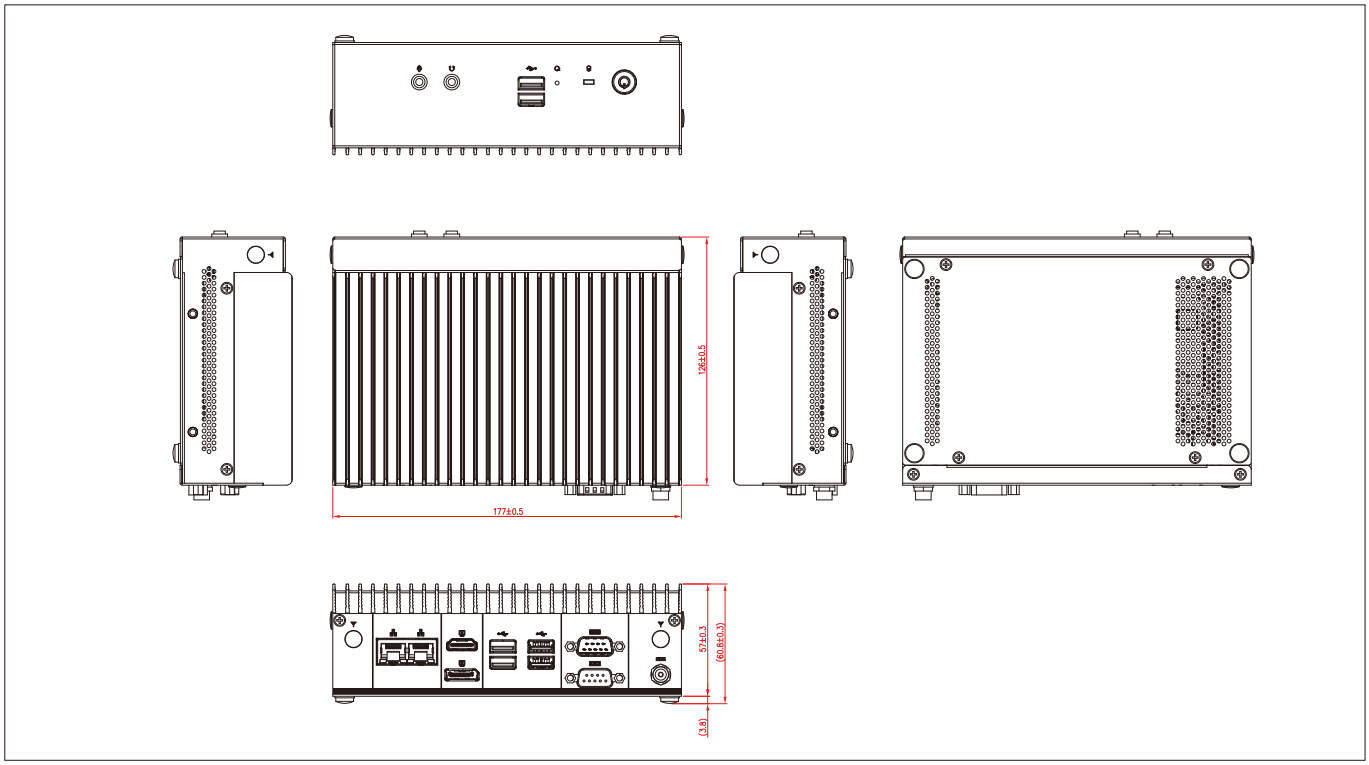
Software Support	
OS	Win11, Linux

Mechanical & Environmental	
Operating Temp.	0°C ~ 60°C (32°F ~ 122°F) with 0.5m/s air flow
Storage Temp.	-30 ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Re lative Humidity, Non-condensing
Dimension (W x L x H)	177 x 127 x 57mm (6.97” x 4.96 x 2.24”)
Weight	1.3 kg
Mounting Kit	Stand/Wall mount (default), VESA/Din Rail (Optional)

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MECHANICAL DRAWING



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