

ABP

4000



13th Gen Intel® Core™ i7/i5/i3 Processor (Raptor Lake-P)

Ultra-slim Fanless Embedded System



▲ Digital Signage



- 13th Gen Intel® Core™ i7/i5/i3 U-series Processor (Raptor Lake-P), 15W TDP CPU
- Ultra-slim and cableless design, fanless -25°C to 70°C operation
- 2 DDR4 3200MHz memory, up to 64GB
- 2 USB 3.2 Gen 2, 1 USB 3.2 Gen 2x2 max 20Gbps data transfer
- 4 HDMI and 1 DP (Type-C) up to 4K resolution
- DC 9V to 55V Power Input, Software Ignition Power Control
- Fully supports OpenVINO™ toolkit for AI Computing
- 5G/WiFi/4G/LTE/GPRS/UMTS Wireless Communication, TPM 2.0

▼ AMR



▲ Kiosk

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IoT Solutions

OpenVINO™



Vecow

Specifications

System

Processor	- Onboard 10-core 13th Gen Intel® Core™ i7-1365UE Processor (Raptor Lake-P) - Onboard 10-core 13th Gen Intel® Core™ i5-1345UE Processor (Raptor Lake-P) - Onboard 6-core 13th Gen Intel® Core™ i3-1315UE Processor (Raptor Lake-P)
Chipset	Intel® SoC
GPU	Intel® Iris X®
BIOS	AMI
SIO	IT8786E
Memory	2 DDR4 3200MHz SO-DIMM, up to 64GB
OS	Windows 10, Windows 11, Linux

I/O Interface

Display	4 HDMI 2.0 : Up to 3840 x 2160 @60Hz 1 DisplayPort 1.4a: Up to 3840 x 2160 @60Hz by USB Type-C
Serial	2 COM RS-232/422/485
USB	- 1 USB 3.2 Gen 2x2 Type-C, support DP 1.4a - 2 USB 3.2 Gen 2 Type-A - 2 USB 2.0 Type-A
LED	Power, HDD, Wireless
SIM	1 External Nano SIM Card Socket

Expansion

M.2	- 1 M.2 Key B Socket (2242/3042, PCIe x1/USB 3, default) with internal SIM - 1 M.2 Key E Socket (2230, PCIe x1)
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Storage

SATA	1 SATA III (6Gbps)(Optional)
M.2	- 1 M.2 Key M Socket (2242/2280, PCIe 4.0 x4) - 1 M.2 Key M Socket (2242/2280, PCIe x2, default/SATA)

Audio

Audio Codec	Realtek® ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

Ethernet

LAN 1	Intel® I226 2.5GigE LAN supports TSN
LAN 2	Intel® I226 2.5GigE LAN supports TSN

Power

Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block: V+, V-, Frame Ground
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Terminal Block

Others

TPM	Infineon SLB9672 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	228.0mm x 150.0mm x 32.6mm (8.98" x 5.91" x 1.28")
Weight	1.6 kg (3.5 lb)
Mounting	- Wallmount by mounting bracket - VESA Mount (Optional) - DIN Rail Mount (Optional)

Environment

Operating Temperature	-25°C to 70°C (-13°F to 158°F) with air flow
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Vibration	- IEC 60068-2-27 - SSD : 50G @ wallmount, Half-sine, 11ms
Shock	- IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, ICES, EN50155, EN50121-3-2

Order Information

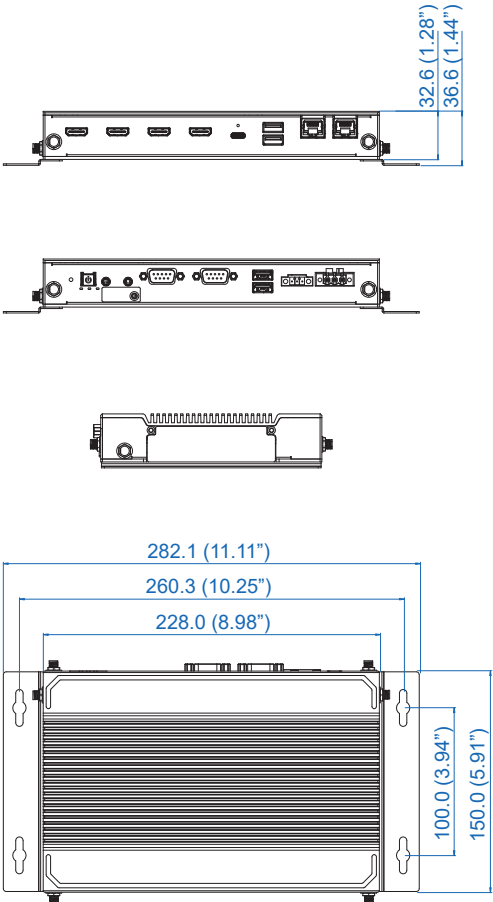
Model	CPU	2.5G LAN	COM	USB 2.0	USB 3.2		HDMI	M.2
					Type-A	Type-C		
ABP-4000-1365UE	Core i7-1365UE	2	2	2	2	1	4	4
ABP-4000-1345UE	Core i5-1345UE							
ABP-4000-1315UE	Core i3-1315UE							

Accessories

DDR4 32G	Certified DDR4 32GB 3200MHz RAM
DDR4 16G	Certified DDR4 16GB 3200MHz RAM
DDR4 8G	Certified DDR4 8GB 3200MHz RAM
DDR4 4G	Certified DDR4 4GB 3200MHz RAM
PWA-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
VESA Mount	VESA Mounting Kit
DIN-RAIL	DIN-RAIL Kit
M.2 Storage Module	M.2 Key M/Key B Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)



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