

# 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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# 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

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# 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							
ABP-4000-1345UE	Core i5-1345UE	2	2	2	2	1	4	4
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)

