



Innovating the Next Generation of Edge AI Technology

AI Smart Processor(NPU)| Fanless | Slim Design

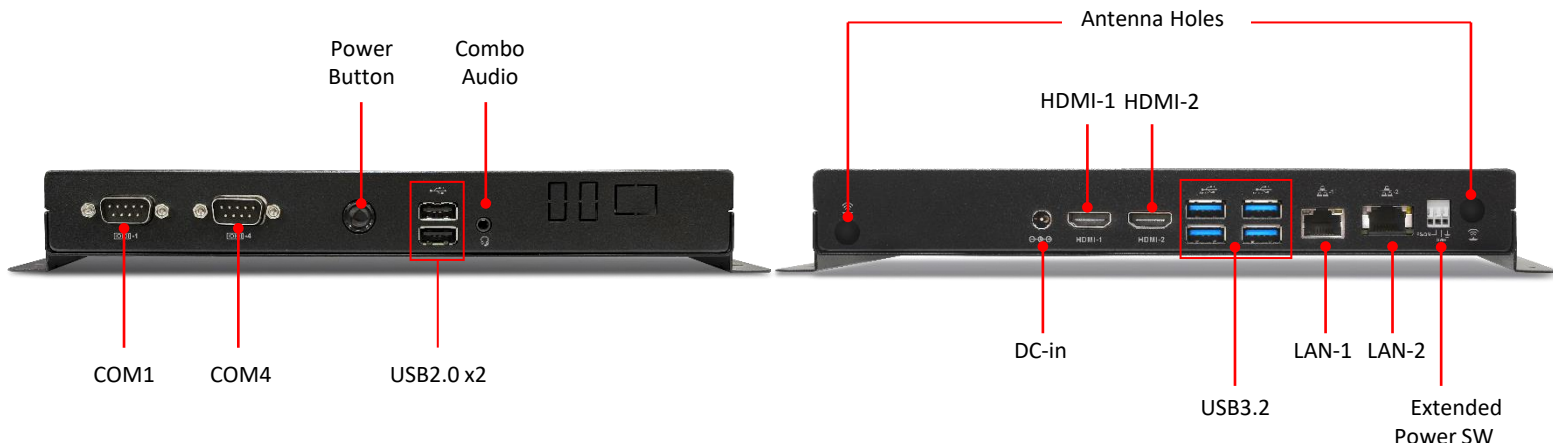
DEX5145

The AOPEN DEX5145, with Intel[®] 14th Gen Core Ultra CPU and NPU, is designed for continuous AI workloads. It offers low-power AI acceleration without burdening the CPU and GPU. Supporting generative AI applications, it handles tasks like image recognition, natural language processing, and predictive analytics. It also supports WiFi 6e, and operates at temperatures as low as -20°C, ensuring stable performance in various applications.



- 14th Gen Intel[®] Core[™] i processors with a thermal design power (TDP) of ≤15W
- Meteor Lake NPU, providing continuous high-efficiency AI workloads
- Fanless design with excellent aluminum extrusion heat dissipation, and a sealed design to effectively prevent dust ingress
- Slim body design, easily installable in various application devices
- DDR5 memory, up to 64GB
- Wi-Fi 6e connectivity
- System operation at low temperatures of -20°C

DEX5145



Model name		DEX5145
Color		Black
Dimensions	W x H x D (mm)	240 x 30 x 158 mm
	W x H x D (inch)	9.44 x 1.18 x 6.22 inch
Weight		1.59 kgs / 3.50 lbs
CPU	Type	Intel® 14 th Core-I Processor TDP<=15W
Memory	Channels	Dual Channel
	Type	DDR5 SO-DIMM x2
	Data Rate	5200 / 5600 MHz
	Max Memory	Max 64G
Graphics		Intel® Graphics
Expansion slot		M.2 slot x1, 2280(key M for PCIe /SATA SSD), M.2 slot x1, 2242(key B for extension), M.2 slot x1, 2230(key E for wifi)
Audio	Type	Realtek HD Audio ALC256CG
	Channel	Stereo
LAN	Chip	Intel® Giga LAN x1 + 2.5GLAN x1 (i219LM + i226V)
	Speed	100 / 1000 / 2500 Mbps
Storage	2.5" Bay	-
	M.2 SSD	X 1

Supports



(optional)

Front Panel I/O	USB 2.0 Port		X 2
	USB 3.2 Port		-
	Others		Power Button x 1, DB9 RS232 x 1, DB9 RS232/422/485 x 1 Combo audio jack x 1
Rear Panel I/O	DC Input		X 1 (12~24V)
	HDMI Port		X 2 (HDMI 2.1)
	USB Port		X4 (USB3.2)
	DisplayPort		-
	eSATA Port		-
	RJ45 LAN Jack		X 2
	COM Port		-
	Audio Set	Line-Out	-
		Mic-in	-
	Antenna Holes		X 2
	Kensington Lock Hole		-
	Others		Extended Power Switch x1
Watchdog Timer			1 ~ 255 sec/min
TPM			2.0
Power Supply			90W(19V, 4.74A) AC Adapter
Input Voltage			AC 100 ~ 240V
Warranty			2 Years
Operating Temperature			-20 ~ 45°C (-4 ~ 113°F)
Storage Temperature			-30 ~ 60°C (-22 ~ 140°F)
Relative Humidity			90% RH (45°C non-Condensing)

*Please note that product specifications are subject to change without notice



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