

# Aetos Endura

Rockchip RK3576J • Industrial Fanless BOX PC

Aetos Endura is an industrial-grade ARM embedded BOX PC powered by the Rockchip RK3576J SoC with a 6 TOPS NPU for on-device AI inference. Wide-temperature operation (−40 ~ 70 °C), rich serial and network connectivity, and flexible mounting make it ready for the harshest edge deployments.



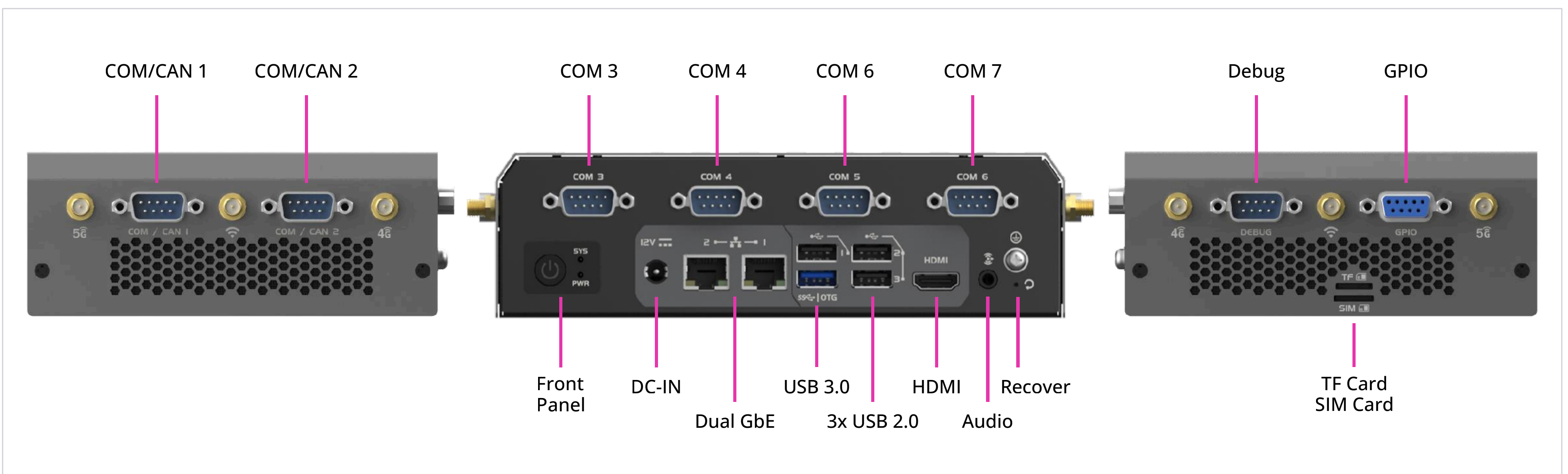
**FEATURES**

## Key Capabilities

- Industrial Rockchip RK3576J SoC
- 4× Cortex-A72 + 4× Cortex-A53 • 6 TOPS NPU
- 4 / 8 / 16 GB LPDDR5X • 32 / 64 / 128 GB eMMC
- HDMI 2.1 up to 4K 60 Hz
- 2× GbE • 2× CAN • 4× USB • up to 6× COM
- WiFi, BT, 4G / 5G, SSD or AI expansion
- Android, Linux, OpenHarmony support
- −40 ~ 70 °C operating temperature

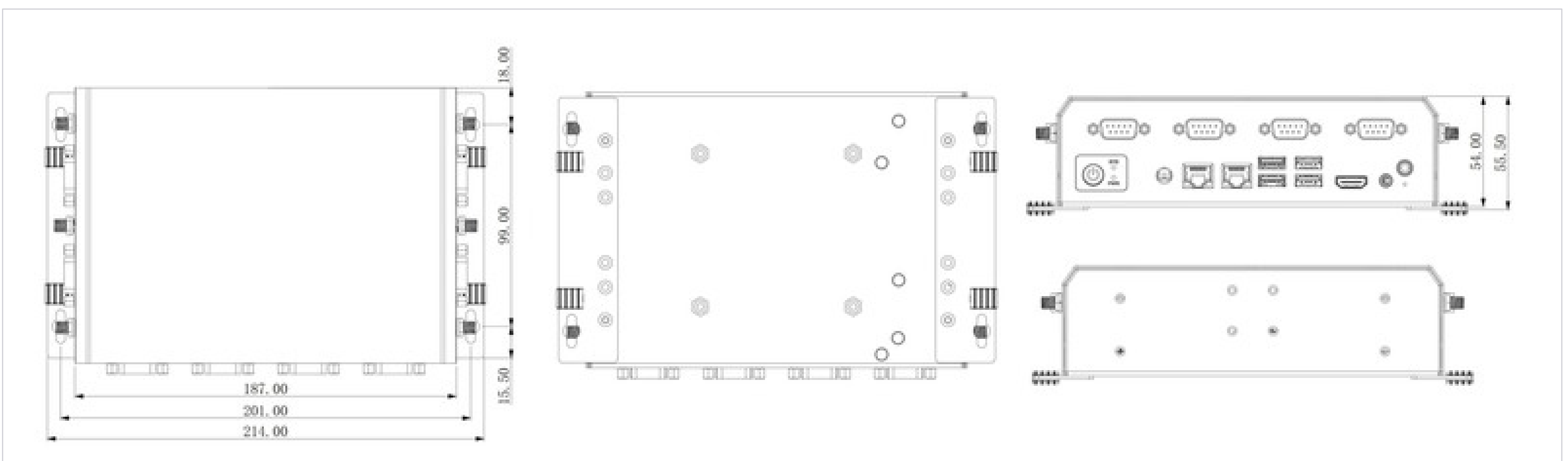
- CCC
- CE Class A
- Android
- Linux
- OpenHarmony

## 02 Product View



## 03 Dimensions

**187 × 135 × 54 mm (L × W × H)**



# Aetos Endura

## Specifications

### 04 Specifications

<b>System</b>	<b>SoC (Industrial)</b>	Rockchip RK3576J
	<b>SoC (Commercial)</b>	Rockchip RK3576
	<b>CPU (Industrial)</b>	4× Cortex-A72 up to 2.1 GHz + 4× Cortex-A53 up to 1.9 GHz
	<b>CPU (Commercial)</b>	4× Cortex-A72 up to 2.2 GHz + 4× Cortex-A53 up to 2.0 GHz
	<b>NPU</b>	6 TOPS RKNN NPU • INT4 / 8 / 16 / FP16 hybrid
	<b>AI Frameworks</b>	TensorFlow, PyTorch, Caffe, ONNX, MXNet (via RKNN toolkit)
<b>Memory</b>	<b>RAM</b>	On-board 4 GB / 8 GB / 16 GB LPDDR5X
<b>Storage</b>	<b>Onboard</b>	eMMC 5.1 32 / 64 / 128 GB (up to 256 GB custom)
	<b>Expansion</b>	1× M.2 (SATA 3.0 SSD / PCIe Gen2 x1 AI / USB 3.0) • 1× Micro SD
	<b>GPU</b>	ARM Mali-G52 MC3 • OpenGL ES 3.2, Vulkan 1.1, OpenCL 2.0 FP
<b>Video</b>	<b>Codec</b>	Decoder 8K30 / 4K120 • Encoder 4K60 (H.265 / H.264)
	<b>Display</b>	1× HDMI 2.1 Type-A up to 4K 60 Hz
	<b>Audio</b>	<b>Codec / I/O</b>
<b>Network</b>	<b>Ethernet</b>	2× RJ45 10 / 100 / 1000 Mbps • 4 kV surge • 2.5 G option
	<b>Wireless</b>	WiFi 5 (802.11ac) + BT / BLE 5.2
	<b>Cellular</b>	Optional 4G / 5G / LoRa / Zigbee • 1× Micro SIM
	<b>Front I/O</b>	<b>USB</b>
<b>Side I/O</b>	<b>Serial</b>	2× RS-232 / 485 DB9 • 2× RS-232 / TTL DB9 (BOM)
	<b>Serial / GPIO</b>	2× RS-232 / 485 / CAN DB9 • 8× GPIO DB9 • 1× TTL Debug DB9
<b>Power</b>	<b>Input</b>	12 V DC-In • optional 9 ~ 36 V wide-voltage with RPP
	<b>Connector</b>	5.5 × 2.5 mm DC Jack • 2-pole lockable terminal block
	<b>Controls</b>	Power button, Recovery button, programmable LEDs
	<b>Board</b>	<b>Reliability</b>
<b>Mechanical</b>	<b>Security</b>	On-board Z32H330TC TPM 2.0 (optional)
	<b>Dimensions</b>	187 × 135 × 54 mm
<b>Software</b>	<b>Mounting</b>	Wallmount, Bookmount, DIN Rail, VESA mount
	<b>OS</b>	Debian 12, Android 14, Ubuntu 22.04, OpenHarmony
<b>Environment</b>	<b>System</b>	Preempt-RT • HW-accelerated Qt / Web GUI • Docker
	<b>Operating</b>	0 ~ 50 °C / -20 ~ 60 °C / -40 ~ 70 °C (BOM optional)
<b>EMC</b>	<b>Storage</b>	-40 ~ 85 °C • 10 ~ 90 % RH non-condensing
	<b>Compliance</b>	IEC 61000-4-2 ESD Lvl 3 • IEC 61000-4-4 EFT Lvl 4
	<b>Certifications</b>	CCC • CE Class A

# Aetos Endura

[Ordering](#) • [Packing list](#) • [Accessories](#)

## 05 Standard SKUs

Part Number	SoC	RAM	Flash	LAN	WiFi	M.2	TPM	Power	Op. Temp.
<a href="#">Aetos Endura-A8HW1</a>	RK3576J	8 GB	64 GB	1000M	Yes	USB 3	No	9 ~ 36 V	-40 ~ 70 °C
<a href="#">Aetos Endura-A8HT1</a>	RK3576J	8 GB	64 GB	1000M	Yes	USB 3	Yes	12 V	-20 ~ 60 °C
<a href="#">Aetos Endura-B8HA1</a>	RK3576	8 GB	128 GB	2.5 G	Yes	PCIe	Yes	12 V	0 ~ 50 °C
<a href="#">Aetos Endura-B8ML1</a>	RK3576	4 GB	32 GB	1000M	No	SATA	No	12 V	0 ~ 50 °C

Note • Serial ports default to COM 1/2-CAN, COM 3/4-RS485, COM 6/7-RS232. Contact sales for custom configuration.

## 06 Packing List

Article	Description
<a href="#">60 W Power Adaptor</a>	AC 100 ~ 240 V to DC 12 V / 5.0 A
<a href="#">Power Cord</a>	CCC 10 A 250 V
<a href="#">WiFi Antenna</a>	2.4 / 5 GHz dual-band antenna
<a href="#">Horizontal Wall mount kit</a>	Wall-mount brackets with screws

## 07 Optional Accessories

Article	Description
<a href="#">65 W Power Adaptor (lockable)</a>	AC 100 ~ 240 V to DC 19 V / 3.42 A
<a href="#">DEEPX DX-M1M M.2 module</a>	25 TOPS / 3 W (Typical), 2 GB LPDDR4x (4266 MT/s)
<a href="#">256 GB SATA SSD</a>	KT256GM24S3H7, M.2 2242 SATA 6 Gbps (0 ~ 70 °C)
<a href="#">512 GB SATA SSD</a>	KT512GM24S3H7, M.2 2242 SATA 6 Gbps (0 ~ 70 °C)
<a href="#">256 GB SATA SSD (wide-temp)</a>	TS256GMTS970T-VS1, M.2 2280 SATA 6 Gbps (-20 ~ 75 °C)
<a href="#">512 GB SATA SSD (wide-temp)</a>	TS512GMTS970T-VS1, M.2 2280 SATA 6 Gbps (-20 ~ 75 °C)
<a href="#">4G Expansion kit</a>	Quectel EM05-CN LTE Cat 4 with antenna
<a href="#">4G Expansion kit (eSIM)</a>	Quectel EM05-G LTE Cat 4 with antenna
<a href="#">5G Expansion kit</a>	Quectel RM500U-CNV Sub-6 GHz with antenna
<a href="#">Heatsink for 5G module</a>	Aluminium heatsink with thermal pad & screws
<a href="#">Thermal kit for SSD</a>	Aluminium heatsink with thermal pad & screws
<a href="#">Vertical Wall mount kit</a>	Wall-mount bracket with screws
<a href="#">DIN Rail kit</a>	DIN Rail clamp with screws

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