

RK3588 DIN

AI Edge Power in a Compact Industrial Box

- Powerful RK3588 with 8-core CPU and 6 TOPS NPU
- Supports 8K HDMI output and high-speed NVMe storage
- Dual Gigabit LAN + isolated RS-485 + isolated CAN
- Industrial 9–30 V input with DIN-rail or bracket mounting
- Optional Wi-Fi, Bluetooth, and full 4G/5G connectivity



Attribute	Parameter
CPU	RK3588 Quad-Core Cortex-A76 + Quad-Core Cortex-A55, up to 2.2 GHz
Memory	8 GB LPDDR5X dual-channel, up to 4800 Mbps
Storage	64 GB eMMC (HS400) + M.2 NVMe/SATA (2242/2280)
NPU	6 TOPS INT8 AI computing power
Serial	2× isolated RS-485
CAN Bus	1× isolated CAN 2.0B
GPIO / IO	2× isolated GPIO (configurable as I ² C or UART)
Ethernet	2× Gigabit Ethernet
USB	1× USB 2.0 Host, 1× USB 3.0 OTG
Wireless (Optional)	M.2-2230 Wi-Fi/BT (PCIe + USB2.0)
Cellular (Optional)	4G/5G via M.2 + 1× Nano SIM, 7× SMA antenna ports
Video Output	2× HDMI 2.1, up to 8K@60Hz
Audio	3.5mm headphone + mic input
Console	USB-C UART Debug (115200 bps)
Expansion	PCIe 3.0 x4 + PCIe 2.0 x1, TF card slot
Input Voltage	9–30 V DC
OS	Ubuntu 24.04-LTS Desktop
Dimensions	140 × 93 × 35 mm
Installation	35 mm DIN-rail / bracket mount
Weight	495 g