

SD-808P Edge AI (16GB)

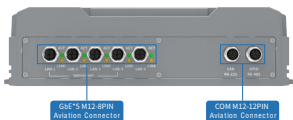
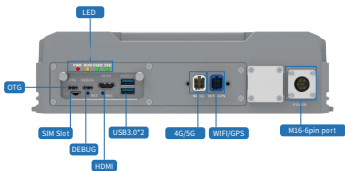
SD-808 is built on NVIDIA Jetson Orin NX core board, delivering 100 TOPS AI computing power. Preloaded with the Ubuntu 20.04 OS, it supports 4G/5G, offers rich interfaces, and meets IP65 protection standards. Engineered for harsh industrial environments, it is ideal for edge AI deep learning deployment across robotics, low speed autonomous driving, smart factories, and intelligent transportation.



SPECIFICATIONS		
System	AI Module	Jetson Orin NX
	AI Power	100 TOPS (Super Mode:157TOPS)
	GPU	1024-Core NVIDIA Ampere architecture GPU with 32 Tensor Core
	CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
	Video coding	1x 4K60 (H.265)3x 4K30 (H.265) 6x 1080p60 (H.265)12x 1080p30 (H.265)
	Vdeo decoding	1x 8K30 (H.265)2x 4K60 (H.265) 4x 4K30 (H.265)9x 1080p60 (H.265)18x 1080p30 (H.265)
	Memory	16GB 128-bit LPDDR5 102.4GB/s
	Expansion	(Supports external NVMe)

INTERFACE		
Network	Ethernet	1x M12 GbE LAN port (independent IP) , 4x M12 GbE LAN ports share IP, support 802.3at POE
Wireless	WIFI	2.4GHz/5GHz dual band (optional)
	5G/4G	4G/5G (optional)
	GNSS	Support BD/GPS, meter level/centimeter level/RTK/INS (optional)
	SIM slot	1x SIM slot
Video/	Video	1x HDMI
Audio	Audio	/
I/O	USB	2x USB3.0 Type-A, 1x Type-C OTG, 1x Type-C Debug
	COM	1x RS232, 2x RS485
	CAN	1x CAN-FD, 1x SPI-CAN-FD
	GPIO	2*GPI+2*GPO(3.3v@1mA, with isolation), 2*GPI+2*GPO(12V@1mA, with isolation)
Intenal	M.2 KEY E	WiFi (optional)
Expansion	M.2 KEY M	1x 2280 PCIe SSD
Other	RTC	1x RTC
	Sync Sys.	Support NTP, PPS input/output , PWM output (optional)
	GMSL	/
Power	Power input	9-36V, support ACC
	Power port	M16-SPIN
	LED	Recover/Rest 2 x button, 4 x LED
Mechanical	Dimensions	295mm×207.1mm ×76.5mm
Environm ent	Working temp.	Super mode,-20°C~50°C (default) /-40°C~60°C (optional)
	Working humidity	5%~95%, non-condensing
	Cooling	Active cooling

I/O



Packing List

Power adapter (19V-3.42A)	1	Default
TYPE-C cable	1	Default
M12-to-RJ45 cable	2	Default
Power cord	1	Default
M16 6PIN cable 1 meter	1	Default
DC5.5*2.5m cable splitter(1to2)	1	Default
GPIO/RS485	1	Default
CAN/RS232	1	Default
Fakra_WiFi/GPS antenna	1	Optional
Fakra_4G/5G antenna	1	Optional