

NVIDIA® Jetson AGX Orin™ + High Expandability Industrial Edge AI Computer

DX-M2300 Series

**NEW
RELEASE**



Equipped with NVIDIA®
Jetson AGX Orin™
DX-M2300



Equipped with Jetson AGX Orin™, the Highest Performance of Jetson Orin series

AI processing performance equivalent to server-class processing, with up to 275 TOPS*. Ideal for edge AI applications, such as robots and AMRs operating in manufacturing environments, where high real-time capability is required.

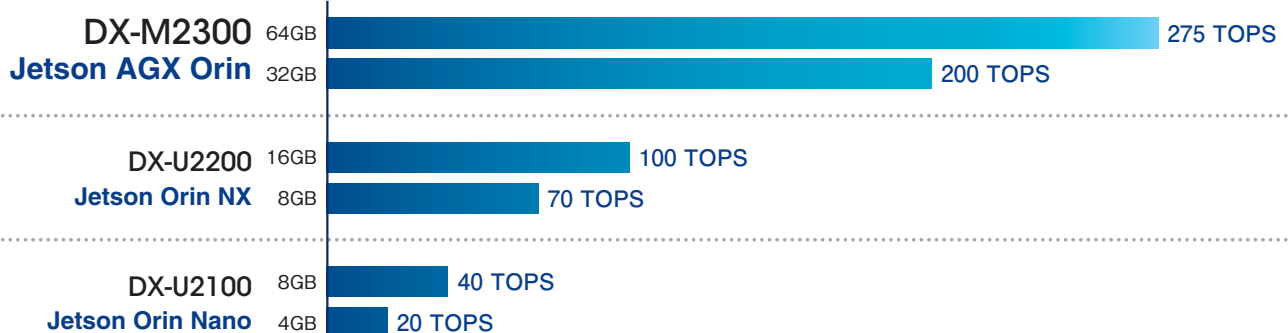
1 TOPS: 1 trillion operations per second

Wide Variety of Interfaces, including Gigabit LAN and USB 3.2 Gen2.

1 x HDMI, 2 x GbE LAN, 4 x USB 3.2, 1 x Micro SD(SD/SDHC/SDXC),

1 x RS-232C, 1 x RS-485, 2 x CAN, 1 x LINE OUT/MIC IN, 4 x DI, 2 x DO, etc.

Advanced processing power (Inference execution performance)



Source: Graph created by Contec based on NVIDIA website data (<https://www.nvidia.com/ja-jp/autonomous-machines/embedded-systems/>)



Ordering Information

Model	Jetson Module	Storage
DX-M2300-5M0623	Jetson AGX Orin 32GB	64GB eMMC / 256GB M.2 NVMe
DX-M2300-5M0723		64GB eMMC / 512GB M.2 NVMe
DX-M2300-5M0823		64GB eMMC / 1TB M.2 NVMe
DX-M2300-5M0923		64GB eMMC / 2TB M.2 NVMe
DX-M2300-6M0623	Jetson AGX Orin 64GB	64GB eMMC / 256GB M.2 NVMe
DX-M2300-6M0723		64GB eMMC / 512GB M.2 NVMe
DX-M2300-6M0823		64GB eMMC / 1TB M.2 NVMe
DX-M2300-6M0923		64GB eMMC / 2TB M.2 NVMe

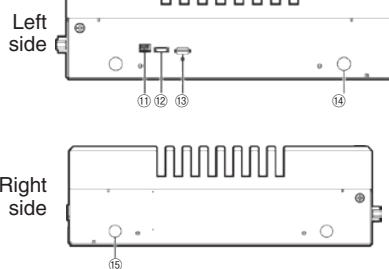
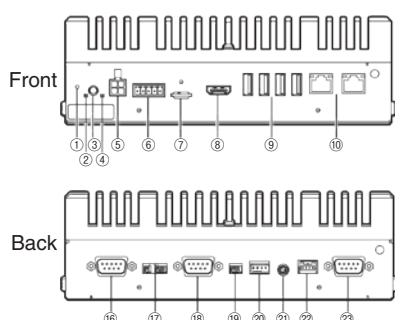
Specifications

Item	DX-M2300-5Mxxx	DX-M2300-6Mxxx
Jetson module	Module	NVIDIA® Jetson AGX Orin™ 32GB
	CPU	8 Core Arm® Cortex® -A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
	GPU	1792 Core NVIDIA Ampere™ GPU 56 Tensor Core
	DL Accelerator	2x NVDLA v2
	Memory	32GB 256bit LPDDR5 204.8GB/s
	eMMC Storage	64GB eMMC 5.1
NVMe Storage	2TB / 1TB / 512GB / 256GB	
Software *1	OS	Ubuntu 20.04.6
	SDK	Jetpack 5.1.3/L4T 35.5.0 V001
Interface	USB	USB 3.2 Gen2 (USB 3.1) Type A×4, USB 2.0 microB×1(For OS writing)
	Display	HDMI2.0×1
	LAN	1000BASE-T/100BASE-TX/10BASE-T×2 (Built-in Jetson module x 1, Intel® I210 Controller x 1)
	MicroSD	MicroSD memory card slot (SD/SDHC/SDXC compatible)
	Digital I/O	DI×4 (isolated), DO×2 (isolated) (2 DIs and 2 DOs are for exclusive use)
	Serial	RS-232C×1, RS-422A/485×1 (Non-insulation, 4800bps to 921.6kbps)
	CAN	CAN2.0A/B×1, CAN FD×1 (Non-insulation, 10bps to 1Mbps)
	Audio	"Microphone input/headphone output jack, speaker output jack (3W 4Ω) *Microphone input/headphone output terminals and speaker output terminals are exclusive."
Real Time Clock	Lithium backup battery life: 10 years or longer, The real-time clock is accurate within ±3 minutes (at 25°C) per month.	
Rated Input Voltage / Current Consumption (Max)	12 to 36VDC 12VDC 4.7A	12VDC 5.4A
Physical dimensions (W x D x H)	200 x 200 x 65 mm (7.87 x 7.87 x 2.56 in) (No bracket or projection included)	
Weight (No bracket included)	3.0kg / 6.61lb (approx.)	
Operating temperature *2	-20 to 60°C (-4 to 140°F) airflow 0.7m/s, Environment: 90% of average load	
Standard	CE Marking (EMC Directive Class A, RoHS Directive), FCC Class A, UKCA, VCCI Class A	

*1 More recent versions may be used without notice. Check the CONTEC website for more information.

*2 Derating occurs due to the load conditions.

Component Name



- ① FG
- ② POWER LED
- ③ POWER SW
- ④ STATUS LED
- ⑤ DC-IN
- ⑥ DIO
- ⑦ MicroSD
- ⑧ HDMI
- ⑨ USB 3.2
- ⑩ LAN
- ⑪ Setting Switch (SW1)
- ⑫ Micro USB
- ⑬ SIM
- ⑭ ANT
- ⑮ ANT
- ⑯ RS-422A/485
- ⑰ RS-422A/485 Setting Switch (SW2, SW3)
- ⑱ CAN
- ⑲ CAN Terminal Switch (SW4)
- ⑳ FAN
- ㉑ Headphone
- ㉒ Speaker
- ㉓ RS-232C



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