

NVIDIA® Jetson Orin™ + large-capacity storage + 4G LTE Industrial Edge AI Computer

DX-U2100/U2200 Series

24 models to choose from

Base : Jetson Orin™ NX 8GB / 16GB
 Jetson Orin Nano™ 4GB / 8GB
 Storage (SSD) : 256GB / 512GB / 1TB
 WAN communication : 4G LTE CAT4 / None

Wide variety of interfaces

1 x HDMI, 4 x LAN, 2 x USB 3.2,
 2 x USB 2.0, 1 x RS-232C, 1 x RS-485,
 1 x CAN, 4 x DI, 2 x DO, etc.

Ultra-compact, fanless system with wide temperature range

Extremely compact 190W x 92D x 45H (mm) design
 Embedded fanless system with stable operation
 over a wide temperature range



Equipped with NVIDIA® Jetson Orin™ NX
DX-U2200

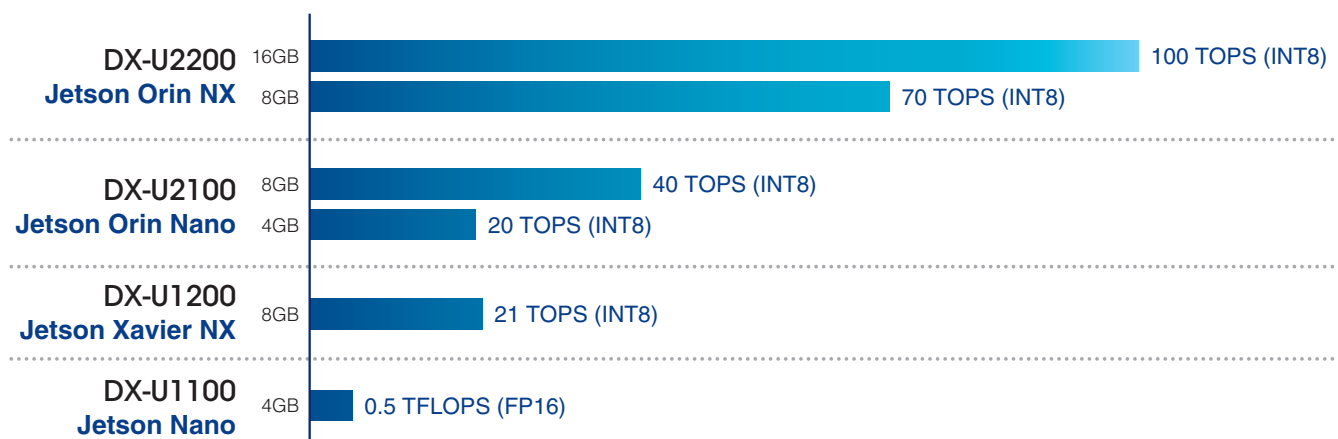


Equipped with NVIDIA® Jetson Orin Nano™
DX-U2100



* When using "Power Failure Protection System", JetPack 5.1.3 (L4T 35.5.0) or later is required. Please download it from our website and use it.

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/>)

DX-U2100/U2200 Series



Ordering Information

DX-U2100 Series with Jetson Orin Nano				DX-U2200 Series with Jetson Orin NX			
Model	Memory	Storage	4G LTE	Model	Memory	Storage	4G LTE
DX-U2100-2M0623	4GB	256GB	Not available	DX-U2200-3M0623	8GB	256GB	Not available
DX-U2100-2M0723		512GB		DX-U2200-3M0723		512GB	
DX-U2100-2M0823		1TB		DX-U2200-3M0823		1TB	
DX-U2100-4G2M0623		256GB	4G LTE CAT4	DX-U2200-4G3M0623		256GB	4G LTE CAT4
DX-U2100-4G2M0723		512GB		DX-U2200-4G3M0723		512GB	
DX-U2100-4G2M0823		1TB		DX-U2200-4G3M0823		1TB	
DX-U2100-3M0623	8GB	256GB	Not available	DX-U2200-4M0623	16GB	256GB	Not available
DX-U2100-3M0723		512GB		DX-U2200-4M0723		512GB	
DX-U2100-3M0823		1TB		DX-U2200-4M0823		1TB	
DX-U2100-4G3M0623		256GB	4G LTE CAT4	DX-U2200-4G4M0623		256GB	4G LTE CAT4
DX-U2100-4G3M0723		512GB		DX-U2200-4G4M0723		512GB	
DX-U2100-4G3M0823		1TB		DX-U2200-4G4M0823		1TB	

Specifications

Item		DX-U2100-xMxxxx	DX-U2100-4GxMxxxx	DX-U2200-xMxxxx	DX-U2200-4GxMxxxx
Jetson module	Module	NVIDIA®Jetson Orin Nano™		NVIDIA®Jetson Orin™ NX	
	CPU	6 cores Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5GHz		DX-U2200-3Mxxxx, DX-U2200-4G3Mxxxx : 6 cores Arm® Cortex®-A78AE v8.2 64-bit CPU 2GHz DX-U2200-4Mxxxx, DX-U2200-4G4Mxxxx : 8 cores Arm® Cortex®-A78AE v8.2 64-bit CPU 2GHz	
	GPU	DX-U2100-2Mxxxx, DX-U2100-4G2Mxxxx : 512 NVIDIA® CUDA® cores, 16 Tensor cores DX-U2100-3Mxxxx, DX-U2100-4G3Mxxxx : 1024 NVIDIA® CUDA® cores, 32 Tensor cores		DX-U2200-3Mxxxx, DX-U2200-4G3Mxxxx : 1024 NVIDIA® CUDA® cores, 32 Tensor cores DX-U2200-4Mxxxx, DX-U2200-4G4Mxxxx : 1024 NVIDIA® CUDA® cores, 32 Tensor cores	
	DL Accelerator	-		DX-U2200-3Mxxxx, DX-U2200-4G3Mxxxx : NVIDIA®v2 x1 610MHz DX-U2200-4Mxxxx, DX-U2200-4G4Mxxxx : NVIDIA®v2 x2 614MHz	
	Memory	4GB 64bit LPDDR5 34GB/sec, 8GB 128bit LPDDR5 68GB/sec		8GB 128bit LPDDR5 102.4GB/sec, 16GB 128bit LPDDR5 102.4GB/sec	
	eMMC Storage	-			
NVMe Storage (M.2)		256GB 3D TLC, 512GB 3D TLC, 1TB 3D TLC			
Software ^{*1}	OS	Ubuntu 20.04.6			
	SDK	Jetpack 5.1.2/L4T 35.4.1 V002			
Interfaces	USB	USB 3.2 Gen2 (USB 3.1) Type A×2, USB 2.0 Type A×2, USB 2.0 microB×1 (for OS writing)			
	Display interfaces	HDMI1.4×1		HDMI2.1×1	
	Ethernet	1000BASE-T/100BASE-TX/10BASE-T×4 (Built-in Jetson module ×1, Intel® I210 Controller ×3)			
	MicroSD	-			
	Digital I/O	DI x4 (isolated), DO x2 (isolated) (2 DIs and 2 DOs are for exclusive use)			
	Serial	RS-232C×1, RS-485×1 (Non-insulation, 4800bps to 921.6kbps)			
	CAN	CAN2.0A/B 1port (Non-insulation, 10kbps to 1Mbps)			
4G LTE ^{*2}	-	Built-in 4G LTE CAT4 module		-	Built-in 4G LTE CAT4 module
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 (CPU built-in RTC).			
Rated Input voltage / Current consumption (Max)		10 to 30VDC			
		12VDC 3.3A, 24VDC 1.7A	12VDC 3.4A, 24VDC 1.8A	12VDC 3.7A, 24VDC 1.9A	12VDC 3.8A, 24VDC 2.0A
Physical dimensions (W x D x H)		190 x 92 x 45 mm (7.48 x 3.62 x 1.77 in) (Not including protrusions)			
Weight (Not including the attachment fitting)		1.2kg / 2.65lb (approx.)	1.3kg / 2.87lb (approx.)	1.2kg / 2.65lb (approx.)	1.3kg / 2.87lb (approx.)
Operating temperature ^{*3}		-20 to 60°C(-4 to 140°F) airflow 0.7m/s, Environment: 50% of average load			
Standard		DX-U2100-xMxxxx, DX-U2200-xMxxxx : CE Marking (EMC Directive Class A, RoHS Directive), FCC Class A, UKCA, VCCI Class A DX-U2100-4GxMxxxx, DX-U2200-4GxMxxxx : TELEC, VCCI Class A			

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

*2 The wireless communication function of this product can be used only in Japan. A separate SIM card contract is required.

*3 Derating occurs due to the load conditions.



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