

Jetson Xavier™ NX with large-capacity storage Industrial Edge AI Computer

DX-U1220 Series

Equipped with
NVIDIA® Jetson Xavier™ NX
DX-U1220P1-3E0212

Expansion slots / Large-capacity storage



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DX-U1220-3E0212

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* 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.

Edge AI Accelerator Equipped with Jetson Xavier™ NX

10 times higher processing capability compared to Jetson Nano™ (0.5 TFLOPS* vs. 6 TFLOPS*)

High-performance model for AI inference processing *Manufacturer's nominal value; TFLOPS: Unit for one trillion floating point operations per second

Large-Capacity 256 GB NVMe Storage

Ideal for storing large amounts of training library data and logging data for longer periods

Wide Variety of Interfaces, Including Four USB 3.2 Gen 2 Ports

Simultaneous connections to multiple USB cameras for visual inspection of production lines and other tasks

Built-in serial port (RS-232C/422A/485 × 1) for convenient connection of peripheral devices and sensors



Ordering Information

Model	Expansion slot	GPU	Memory / Storage	OS
DX-U1220-3E0212	None	384 cores NVIDIA Volta™ GPU	8GB 128bit LPDDR4	Ubuntu 18.04.5 LTS
DX-U1220P1-3E0212	Low Profile PCIe(x1) x 1	48 Tensor cores	16GB eMMC / 256GB NVMe	

Specifications

Item		DX-U1220-3E0212	DX-U1220P1-3E0212
Jetson module	Module	NVIDIA® Jetson Xavier™ NX	
	CPU	6 cores NVIDIA® Carmel ARM® v8.2 64-bit processor	
	GPU	384 cores NVIDIA® Volta™ GPU, 48 Tensor cores	
	DL Accelerator	2xNVDLA (NVIDIA® Deep Learning Accelerator) engine	
	Memory	8GB 128bit LPDDR4	
	eMMC Storage	16GB	
NVMe Storage		256GB	
Software *1	OS	Ubuntu 18.04.5	
	SDK	Jetpack 4.6/L4T 32.6.1 V002	
Interfaces	USB	USB 3.2 Gen2 (USB 3.1) Type A x4, USB 2.0 microB x1 (for OS writing)	
	Display interfaces	HDMI x 1	
	Ethernet	1000BASE-T/100BASE-TX/10BASE-T x 2	
	M.2 *2	M.2 Key E, M.2 Key B	
	External storage	microSD	
	Digital I/O	DI x4 (isolated), DO x2 (isolated) (2 DIs and 2 DOs are for exclusive use)	
	Serial	RS-232C/422A/485 x 1	
	PCIe slot	-	Low Profile PCI Express(x1) x 1
	Other	RTC built in	RTC built in Internal GPIO (for evaluation), MIPI CSI-2 (for evaluation)
Physical dimensions (W x D x H) (Not including protrusions)		190 x 92 x 43 mm (7.48 x 3.62 x 1.69 in)	190 x 92 x 75 mm (7.48 x 3.62 x 2.95 in)
Power supply		12 to 24VDC	
Operating temperature *3		-20 to 60°C (-4 to 140°F) airflow 0.7m/s, Environment: 50% of average load (When mounting a PCIe board : -20 to 50°C (-4 to 122°F))	
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 Contact CONTEC for M.2 module installation.

*3 Derating may occur depending on air flow conditions and under certain load conditions.

Advantages of Contec Edge AI Computers

Environmental resistance

- Fanless enclosure for embedded applications
- Usable over a wide temperature range (-20 to 60°C)

Easy installation

- DIN rail / Wall / VESA
- Compact size

Advanced functions

- 12 to 24VDC power supply
- RTC (Clock) / WDT
- 2x Gigabit LAN ports

BOX-PC heat dissipation technology

Rich variety of I/O boards applicable!



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