

Industrial Edge AI Computer Equipped with NVIDIA® Jetson™

DX-U1100/U1200 Series



Expandability

	
Equipped with NVIDIA® Jetson Nano™ DX-U1100P1-2E0211 PCIe slot model	Equipped with NVIDIA® Jetson Xavier™ NX DX-U1200P1-3E0211 PCIe slot model
	
Equipped with NVIDIA® Jetson Nano™ DX-U1100-2E0211	Equipped with NVIDIA® Jetson Xavier™ NX DX-U1200-3E0211 DX-U1210-3E0211 Simple Anti-dust model

CPU Spec

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Edge AI Accelerator Equipped with NVIDIA® Jetson™

The DX-U1100 series compact AI computer can be used in fields requiring on-site AI inference processing such as image inspection and predictive maintenance.

NVIDIA JetPack™ SDK available

Ubuntu pre-installed along with Jetson developer kit which enables developed applications to run.

High-reliability, long-term supply

Highly reliable and long-life design with rich knowledge of BOX-PC embedded computers.

DX-U1100/U1200 Series



Ordering Information

Model	Expansion slot	GPU	Memory / Storage	OS
DX-U1100-2E0211	None	128 NVIDIA® CUDA® cores	Memory : 4GB 64bit LPDDR4 Storage : 16GB eMMC	Ubuntu 18.04.5 LTS
DX-U1100P1-2E0211	Low Profile PCI Express (x1) x 1	NVIDIA Maxwell™ architecture		
DX-U1200-3E0211	None	384 cores NVIDIA Volta™ GPU 48 Tensor cores	Memory : 8GB 128bit LPDDR4 Storage : 16GB eMMC	
DX-U1200P1-3E0211	Low Profile PCI Express (x1) x 1			

Specifications

Model		DX-U1100-2E0211	DX-U1100P1-2E0211	DX-U1200-3E0211 DX-U1210-3E0211	DX-U1200P1-3E0211
Jetson module	Module	NVIDIA® Jetson Nano™		NVIDIA® Jetson Xavier™ NX	
	CPU	Quad Core ARM Cortex-A57 MPCore processor		6 cores NVIDIA® Carmel ARM® v8.2 64-bit processor	
	GPU	128 NVIDIA® CUDA® cores NVIDIA Maxwell™ architecture		384 cores NVIDIA® Volta™ GPU 48 Tensor cores	
	DL Accelerator	-		2xNVDLA (NVIDIA® Deep Learning Accelerator) engine	
	Memory	4GB 64bit LPDDR4		8GB 128bit LPDDR4	
	Storage	16 GB eMMC			
Software *1	OS	Ubuntu 18.04.5 LTS			
	SDK	Jetpack 4.4.1 [L4T 32.4.4]			
Interfaces	USB	USB 3.2 Gen1(USB3.0) Type A x1, USB 2.0 Type A x1, USB 2.0 microB x1 (for OS writing)		USB 3.2 Gen1 USB3.1 Type A x1, USB 2.0 Type A x1, USB 2.0 microB x1 (for OS writing)	
	Display interfaces	HDMI x 1, DisplayPort (eDP) 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)			
	PCIe slot	-	Low Profile PCI Express(x1) x 1 *3	-	Low Profile PCI Express(x1) x 1
	Other	RTC built in	RTC built in Internal GPIO (for evaluation), MIPI CSI-2 (for evaluation)	RTC built in	RTC built in Internal GPIO (for evaluation), MIPI CSI-2 (for evaluation)
Simple dustproof *4		-	-	O (DX-U1210-3E0211)	-
Physical dimensions(W x D x H)		160 x 92 x 43 mm (6.30 x 3.62 x 1.69 inch) (Not including protrusions)	160 x 92 x 75 mm (6.30 x 3.62 x 2.95 inch) (Not including protrusions)	160 x 92 x 43 mm (6.30 x 3.62 x 1.69 inch) (Not including protrusions)	160 x 92 x 75 mm (6.30 x 3.62 x 2.95 inch) (Not including protrusions)
Power supply		12 to 24VDC			
Operating temperature *5		-20 to 60°C(-4 to 140°F) (When mounting a PCIe board : -20 to 50°C(-4 to 122°F)) airflow 0.7m/s			
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 I/O space and configuration space are limited to 4-byte access only.

*4 The side sheet metal comes pre-attached to the product for dust protection. Connector caps for the USB, HDMI, DisplayPort, and Ethernet ports are also included.

*5 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!

Analog sensor Voltage / Current Digital I/O

Contec Global Network

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