

CUBE X1 / NDI CORE MAX Tech Specs

Model	CUBE X1 Distribution System	NDI CORE MAX
Inputs/Outputs	4KP60 up to 5/10 NDI inputs/outputs NDI High Bandwidth 1080P60 up to 13/26 I/O NDI HX up to 16 inputs and 32 outputs Total input bandwidth not exceeding 2.5 Gbps Total output bandwidth not exceeding 5 Gbps	10G fiber card single port 4KP60 20*20 I/O, 1080P60 40*40 I/O 10G fiber card dual ports 4KP60 24*24 I/O, 1080P60 50*50 I/O 40G fiber card single port 4KP60 84*84 I/O, 1080P60 148*148 I/O 40G fiber card dual ports 4KP60 90*90 I/O, 1080P60 166*166 I/O
NDI Formats	NDI High Bandwidth/NDI HX/NDI HX3	NDI High Bandwidth/NDI HX/NDI HX3
Resolution	Up to 4Kp60	Up to 4Kp60
USB Port	2*USB 2.0 (Type-A)	1*USB3.2 Gen2x2 (Type-C), 2*USB3.2 Gen2 (Type-A) 3*USB3.2 Gen1 (Type-A), 4*USB2.0 (Type-A)
Audio I/O	1*3.5mm Line in 1*3.5mm Line out	/
Network	2 x 10GbE SFP+ port; 1 x 1GbE RJ45 Ethernet port	2 x 10G Fiber Ports (Optional 2 x 40G) 1 x 2.5G RJ45 Etherthet
Output Port	1*HDMI	/
Buttons	16 buttons+1 Power	1 Power
Display	5.5" 1080p LCD touch screen	5.5 inch touch screen
CPU	8 CORE ARM 64-bit Processor	16 CORE i7-13700KF
RAM	12GB	32GB
ROM	16GB	128G SSD
Power Supply	Redundant power 100~230V AC	Redundant Power 100~240V 800W
System	Linux	Linux
Weight	2.00kg	11.6kg
Management	Web	Web
Dimension (mm)	220*231.45*88mm (Combine two CUBE X1 to 2RU)	495*482*132mm (3RU)



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Reminder: All photoes are for reference only, specifications are subject to the phisycal product.



CUBE X1 DISTRIBUTION SYSTEM

Top-Performance, Integrated Hardware & Software
Powerful Distribution

16-CH of inputs & 32-CH of outputs

All NDI protocols support

Seamless switching



The CUBE X1 Distribution System is a compact semi-2U device to route & distribute NDI video streams. It supports NDI HX 16 inputs/32 outputs (if all NDI High Bandwidth sources, 13 inputs/26 outputs), enabling seamless switching of all signals. Functions include router distribution mode, multi-channel distribution, multi-task grouping management, signal looping playback. It is compatible with various NDI formats (NDI HX/NDI HX3), without resolution (UHD/HD) limitations of inputs. The CUBE X1 system can be perfectly applied in scenarios such as broadcasting & TV production, online streaming, medical teaching demonstrations, video conferences, etc.





Features

Top-Performance & Powerful Distribution:

The CUBE X1 Distribution System is a compact device that supports NDI HX 16 inputs/32 outputs (if all NDI High Bandwidth sources, 13 inputs/26 outputs). It enables seamless switching of video signals in broadcasting & TV production scenarios.

Integrated Customized Solution:

The system offers customizable panels, visual operation and the creation of personalized playlists, providing a tailored user experience. The system provides clear operational status indicators, comprehensive input/output management, and robust log & permission management for overall control.

Advanced Hardware Specs Performance:

Description: The system boasts an 8-core ARM64 CPU with 12GB RAM, delivering robust processing power for smooth operation and efficient data handling. Two 10GbE ports support multiple streams and guaranteed bandwidth, meeting the demands of high-definition video streaming.

Optimized User Experience and Operation:

The system features a 5.5" touchscreen with 16 buttons, providing users with an intuitive interface and convenient interaction. Dual expandable USB ports enable connections for mouse, keyboard, and USB drives, enhancing accessibility. The half-width 2RU design and reinforced structure offer a compact yet durable solution.

More



- Automatic discovery of NDI sources within the local network
- 8-core ARM64 CPU with 12GB RAM
- 5.5" touch screen with 16 buttons
- Redundant power supply. Total consumption <20W
- Dual cooling fans, ventilation holes, 24/7 silent operation
- Two 10GbE ports for multiple streams & guaranteed bandwidth

Applications

NDI Distribution Workflow :

Distribution Mode: All NDI sources are individually connected to the matrix server, with switching & distribution handled internally. Router Mode: Allows decoding terminals to directly pull NDI input video sources without passing through the matrix, saving bandwidth and effectively improving the performance of the X1.

