



CODE-XP

NTT Innovative Devices Codec Platform

XP-M100

Broadcast-Grade Quality for Every Stream

From Security to Surveillance and Beyond



Key Features

■ Equipped with Proprietary H.264-Compatible Video Codec LSI

- Achieves broadcast-quality performance with high image quality, low bit rate, and ultra-low latency*
- Supports H.264/AVC encoding and decoding
- Compatible with 1080i / 1080p* formats

■ Dual Functionality: Encoding and Decoding

- Switchable between encoding and decoding modes

■ Versatile Input/Output Interfaces

- Supports uncompressed video/ audio via SDI and HDMI
- IP-based streaming supported

■ Advanced IP Transmission Features

- SRT support enables high-quality video delivery even over IP networks
- Allows simultaneous transmission of multiple encoded streams (up to two) (Flexible combinations of unicast and multicast)
- Redundant transmission enabled through seamless protection*

■ Compact 1U Half-Rack Size

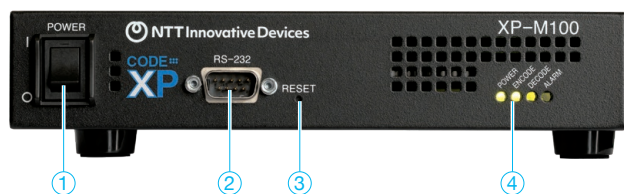
- Up to two units can be mounted in a 1U rack using optional brackets

■ Robust Design for Continuous Operation

- Designed for stable, long-term operation — 24/7/365 continuous use

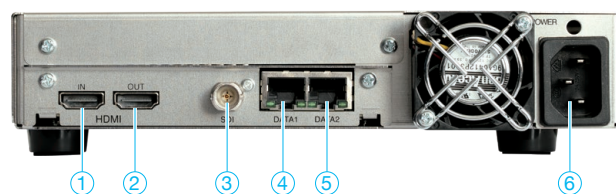
*Features marked with an asterisk are planned for future implementation.

Front Panel



- ① POWER ② COM ③ RESET ④ LEDs

Rear Panel



- ① HDMI IN ② HDMI OUT ③ SDI
④ DATA1 ⑤ DATA2 ⑥ AC 100-240V

Specifications

Category	Item	Specification
Video	Input / Output Interfaces	SDI: BNC x1 (0.8Vp-p 75Ω, SMPTE ST 292), HDMI (HDCP not supported) x1
	Video Compression	AVC/H.264: Profile: High, Level: 4.1 / 4.0
	Video Format	AVC/H.264: 1080i (1920/1440×1080) @ 59.94Hz, 50Hz
	Delay Mode	Standard delay (approx. 800 ms @1080i / 59.94)
	Test Signal	Color bar
Audio	Audio Input / Output	SDI Embedded Audio: SMPTE ST 299, HDMI
	Audio Compression	MPEG-1 L2, 2 channels (Stereo), up to 2 PES
Ancillary Data	Ancillary Data	Not supported
Transport Stream	Transport Stream Format	MPEG-2 TS (188 bytes)
	Input / Output Interfaces	IP: 100BASE-TX / 1000BASE-T (RJ-45) x2
	Maximum TS Rate	Encoder: 50 Mbps, Decoder: 80 Mbps
Network	IP Stream Interfaces	DATA1 / DATA2: 100BASE-TX / 1000BASE-T (RJ-45) *Shared with control port
	Transmission Protocol	RTP / UDP / IP Unicast / Multicast, SRT
	Network Functions	IPv4: NTP, DHCP, Ping
	Error Correction	FEC (SMPTE2022-1-2007 / Pro-MPEG COP#3 R2), SRT
	Encryption	SRT AES encryption (AES-128, 192, 256)
Other Functions		Encode mode / Decode mode switching, Preset function
Control	Control Interfaces	Power ON/OFF key, RESET button, DATA1 / DATA2: 100BASE-TX / 1000BASE-T (RJ-45) *Shared with data port
	Control Method	Web GUI
Dimensions / Weight		W: 209 × H: 40 × D: 300 mm (excluding protrusions) / Less than 2.5 kg
Power Supply		AC 100V-240V, 50/60Hz
Power Consumption		Less than 60W
Operating Environment*1		-10°C to 50°C (excluding low-temperature startup*2), 20%–90% (non-condensing)
Compliance		UL, CSA, CE, VCCI, FCC, ICES, RoHS, REACH, POPs, TSCA, China RoHS

Option Name	Option Number	Model Name	Detail
Rackmount Kit	OP91	XP-x100_OP_RK	Mount Kit for 1U Rack (Supports installing Max 2 Units into 1U Rack Size)

Please consult our sales representative regarding the required options

*1 It is not the given devices of measures such as waterproofing, protection against dust, damage from salt breeze. Thus, life of equipment may shorten remarkably, and it is not possible for the normal movement security under using environmental condition.

*2 low-temperature = under 0 degrees Celsius

- Our company may change specifications and the appearance for improvement that are incidental to the product without providing prior notice. At the purchase and the use of the product, please confirm the latest information.
- Exporting our products or technologies may be subject to the Foreign Exchange and Foreign Trade Law of Japan and export control acts and regulations of other related countries.
- All other brand or product names are trademarks or registered trademarks of their respective companies or organizations.

Caution Please use our products in accordance with the instructions provided in the manual, user's guide or specifications attached.



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