IP-NINJAR RoHS

SDI Encoder for AV over IP

NJR-T01SDI

The NJR-T01SDI is a 3G/HD/SD-SDI input-compliant AV over IP encoder. It transmits SDI input signals and audio for a long-haul transmission over fiber optic cables.

The NJR-T01SDI features local monitor output which enables video recording and preview output using an HDMI monitor. It also offers RS-232C bidirectional communication and 1G network transmission.

Please use this product with a combination of IP-NINJAR products.

■ Specification

Item		Description
Input		1 input 3G-SDI/HD-SDI/SD-SDI NRZI/NRZ, 0.8 V[p-p]/75 Ω SMPTE 424M (3G-SDI)/SMPTE 292M (HD-SDI)/SMPTE 259M-C (SD-SDI) Connector: BNC (*1) Cable: 75-Ω coaxial cable for high-frequency signals
Output		1 output Digital signal for extension RS-232C, LAN Connector: 2 LCs
		1 output for monitoring input signals When the NJR-T01SDI is powered, SDI input signal is output 3G-SDI/HD-SDI/SD-SDI NRZI/NRZ, 0.8 V[p-p]/75 Ω SMPTE 424M (3G-SDI)/SMPTE 292M (HD-SDI)/SMPTE 259M-C (SD-SDI) Connector: BNC Cable: 75-Ω coaxial cable for high-frequency signals
		1 output for monitoring input signals When the NJR-T01SDI is powered, SDI input signal is output HDMI (*2)/DVI 1.0 TMDS single link Connector: Female HDMI Type A (19-pin) (*3)
Format		480i / 480p / 576i / 576p / 720p (not supporting 23.98 Hz or 24 Hz) / 1080i / 1080p
Digital audio input		Multi-channel LPCM up to 8 channels (Selecting two groups from Audio group1 to 4) Sampling frequency: 48 kHz, Sample size: 16 bit to 24 bit, Reference level: -20 dBFS, Max. input level: 0 dBFS
Digital audio output		Multi-channel LPCM up to 8 channels Sampling frequency: 48 kHz, Sample size: 16 bit to 24 bit, Reference level: -20 dBFS, Max. output level: 0 dBFS
Analog audio input		1 input Balanced/Unbalanced Stereo LR Input impedance: 48 kΩ balanced/24 kΩ unbalanced Reference level: -10 dBu Max. input level: +10 dBu Connector: Captive screw (5-pin)
Analog audio output		1 output Balanced/Unbalanced Stereo LR Output impedance:100 Ω balanced/50 Ω unbalanced Reference level: -10 dBu Max. output level: +10 dBu Connector: Captive screw (5-pin)
Cable for extension	Cable	Duplex fiber cable SFP+ optical transceiver
	Transmission distances (*4)	Up to 984 ft. (300 m) (OM3 Multimode fiber), Up to 6.21 mi. (10 km) (OS1 Singlemode fiber)
Control	RS-232C	1 port/captive screw (3-pin), full duplex, up to 115.2 kbps
	LAN	1 port/RJ-45 10Base-T/100Base-TX/1000Base-T (Auto Negotiation), Auto MDI/MDI-X
General	AC adapter	Input : 100 - 240 VAC ±10%, 50 Hz/60 Hz ±3 Hz Output : DC 12 V 3 A 36.0 W (A dedicated AC adapter is provided)
	Power consumption	About 15 W
	Dimensions	8.3 (W) × 1.7 (H) ×5.5 (D)" (210 (W) × 44 (H) × 140 (D) mm) (Half rack wide, 1U high) (Excluding connectors and the like)
	Weight	2.9 lbs. (1.3 kg)
	Temperature	Operating : 32°F to 104°F (0°C to +40°C) Storage : -4°F to +176°F (-20°C to +80°C)
	Humidity	Operating/Storage: 20% to 90% (Non Condensing)

*1 With 1505A (BELDEN RG-59), SD-SDI: 1083 ft. (330 m)/HD-SDI: 656 ft. (200 m)/3G-SDI: 394 ft. (120 m)
With 1694A (BELDEN RG-6), SD-SDI: 1312 ft. (400 m)/HD-SDI: 787 ft. (240 m)/3G-SDI: 459 ft. (140 m)
*2 x.v.Color, 3D, ARC, HEC, and CEC are not supported.
*3 Use 16.4 ft. (5 m) or shorter HDMI cables.
*4 Only if the SFP+ optical transceiver sold by IDK is used, signals can be transmitted to the mentioned maximum transmission distance. If using other SFP+ optical transceiver, check the compatible fiber and maximum distance of the SFP+ optical transceiver.

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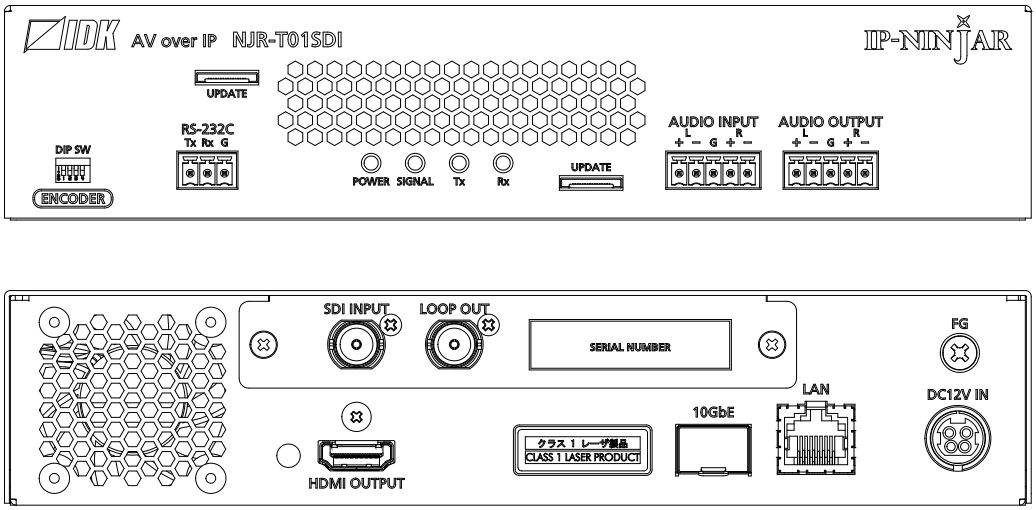
■ **Front & Rear Panels**



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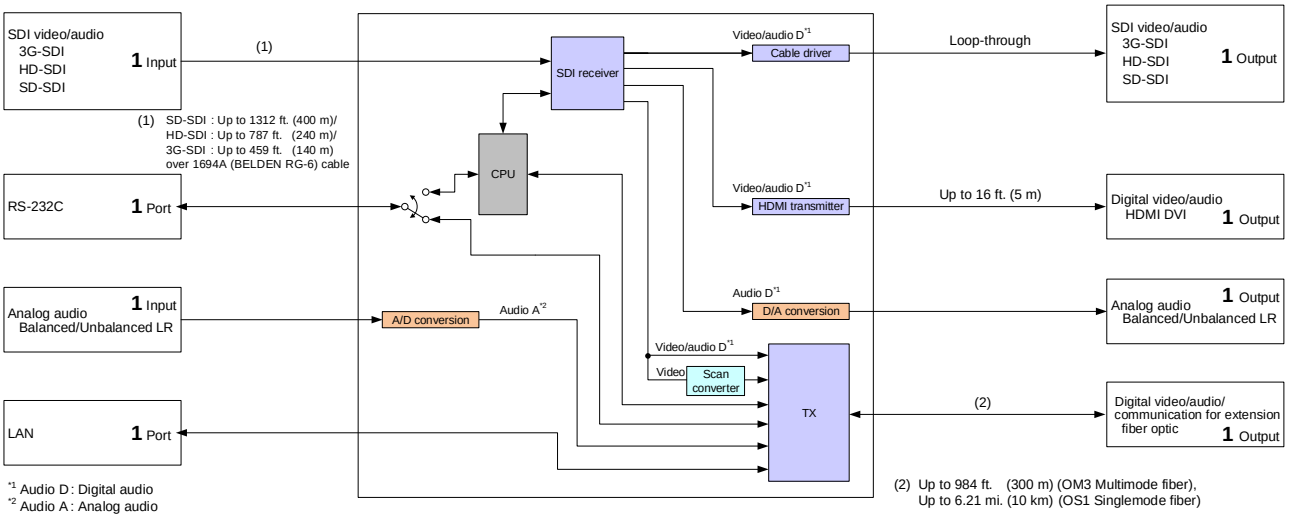
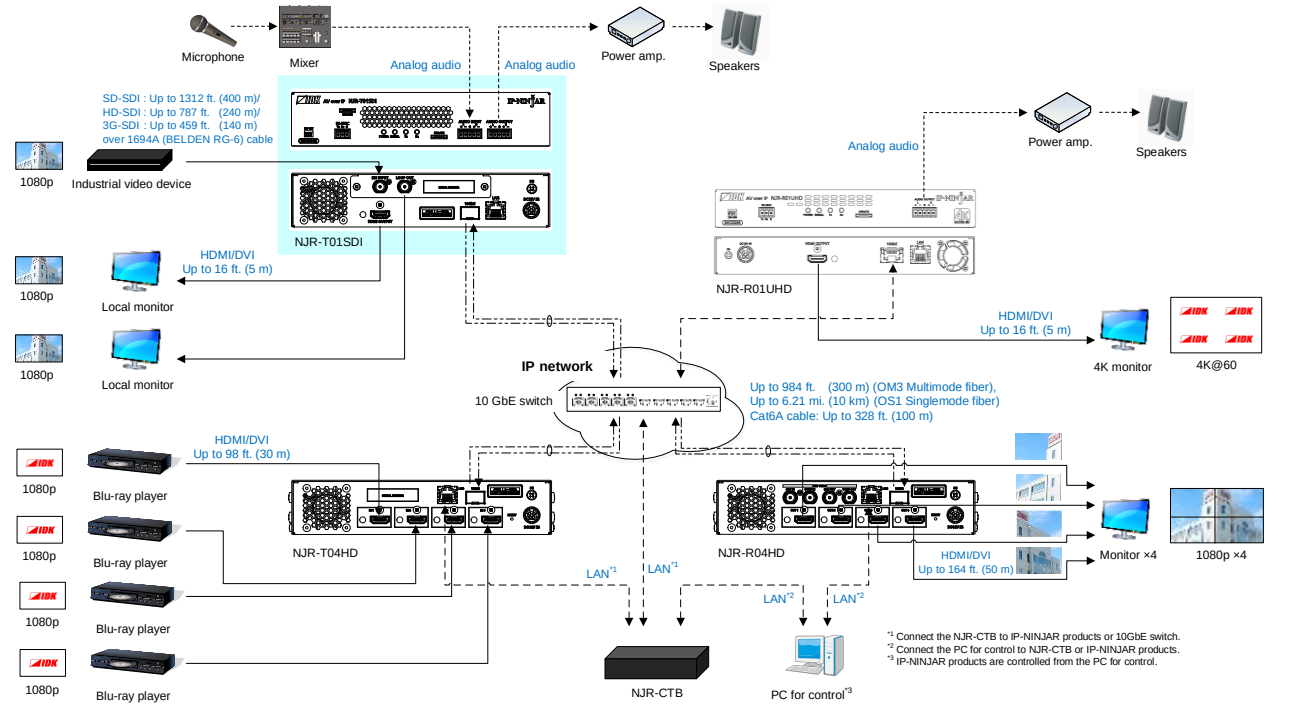
■ Diagram



■ Application example

<Used as network encoder>



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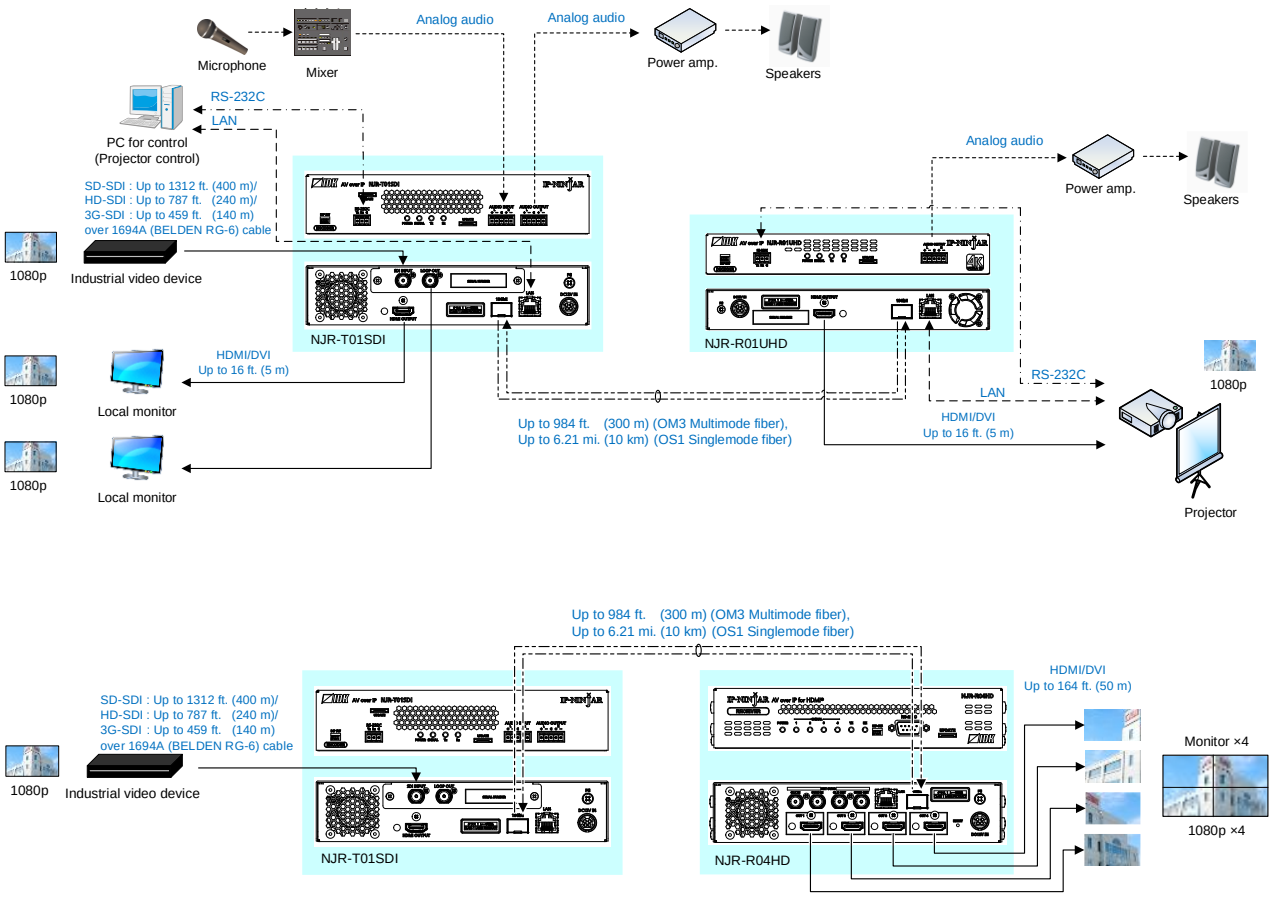
<Used as encoder>



[Features]

■ **Video**
- Up to 1080p
- 3G-SDI/HD-SDI/SD-SDI input
- Local monitor output
- Transmission distances
  Up to 984 ft. (300 m) (OM3 Multimode fiber), Up to 6.21 mi. (10 km) (OS1 Singlemode fiber)

■ **Audio**
- De-embedding

■ **Communication**
- Bidirectional RS-232C
- LAN

■ **Network**
- 10 Gb switch allows: extension, distribution, matrix switching, videowall, and multiview
- Controllable through network using NJR-CTB
- IP-NINJAR encoders and decoders can easily be added and replaced

■ **Others**
- AC adapter with locking mechanism

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