

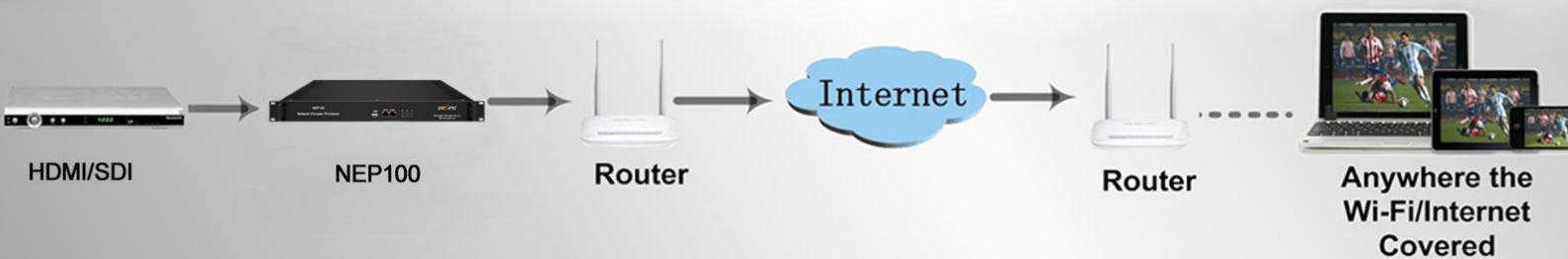


NEP100

Network Encoder Processor

Multiple HDMI/SDI inputs

IP out over UDP (SPTS)/RTP/RTSP/RTMP/HTTP/HLS



Outline

NEP100 network encoder processor is an IP broadcasting device with multiple inputs (HDMI/SDI) which can convert the input programs into IP format and send to terminals through the internet/LAN. This 1-U chassis comes with 3 slots which allow loading different encoder modules with different interfaces and video formats.

Key Features

- Modular design, 1U chassis with 3 slots
- Support flexible combination of encoding modules, up to 12 HD programs inputs
- HDMI/SDI modules available, HEVC/MPEG4 video format for option
- 1 GE port with maximum 180Mbps data processing and output
- IP out over UDP (SPTS) (Unicast/Multicast), RTP (Unicast/Multicast), RTSP(Unicast), RTMP(Unicast), HTTP(Unicast), HLS (Unicast); **RTMP only works under H. 264 video format and AAC audio format**
RTSP/RTMP/HTTP/HLS support each ch video bitrate max: 8Mbps
UDP/RTP support each ch video bitrate max: 12Mbps
- Support Web management, Upgrade via USB port

Encoder Module Specifications

4 HDMI/SDI Encoding Module



DX224H/DX224HV

Module Specifications:

Input: 4×HDMI (1.4) input, HDCP 1.4, or 4×SDI input

Video Encoding:

Video format: HEVC/H.265 & MPEG 4 AVC/H.264

Resolution:

	Input	Output	
		HEVC/H.265	MPEG-4 AVC/H.264
DX224HV	4*1080P-50	4*1080P-50	4*1080P-25 2*1080P-50
	4*1080P-60/59.94	4*1080P-60, 4*1080P-59.94	4*1080P-30 4*1080P-29.97 2*1080P-60 2*1080P-59.94
	4*1080I-50	4*1080P-50, 4*1080P-25	4*1080I-50 4*1080P-25 2*1080P-50
	4*1080I-60/59.94	4*1080P-60, 4*1080P-30	4*1080I-60 4*1080P-30 2*1080P-60
	4*720P-50	4*720P-50	4*720P-50
	4*720P-60/59.94	4*720P-60, 4*720P-59.94	4*720P-60 4*720P-59.94
	DX224H	4*1080P-50	4*1080P-50
4*1080P-60/59.94		4*1080P-60, 4*1080P-59.94	4*1080P-60 4*1080P-59.94
4*1080I-50		4*1080P-50, 4*1080P-25	4*1080P-25 4*1080I-50
4*1080I-60/59.94		4*1080P-60, 4*1080P-30	4*1080P-30 4*1080P-60 4*1080I-60
4*720P-50		4*720P-50	4*720P-50
4*720P-60/59.94		4*720P-60, 4*720P-59.94	4*720P-60 4*720P-59.94

Bit rate (each channel): 0.5Mbps~20Mbps (H.265), 4 Mbps~20Mbps (H.264)

Chroma: 4:2:0 **Rate Control:** CBR/VBR **GOP structure:** IBBP, IPPP

Audio Encoding:

Audio format: MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3
Passthrough

Bit-rate (each channel):

48Kbps~384Kbps (MPEG-1 Layer 2 & LC-AAC)

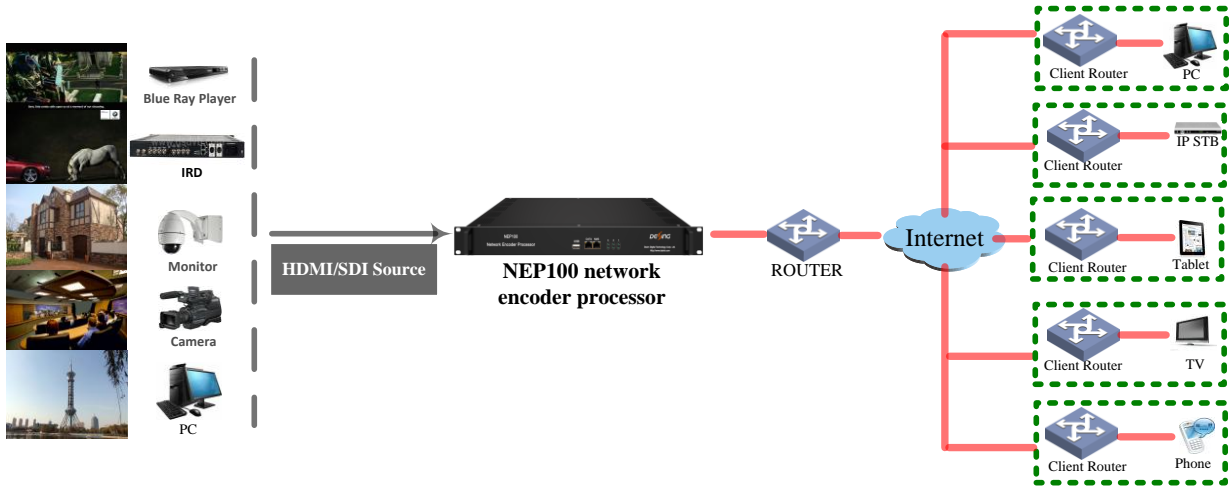
24 Kbps~128 Kbps (HE-AAC)

18 Kbps~56 Kbps (HE-AAC V2)

Audio Gain: 0~255 Sampling rate: 48KHz

Support Logo, QR Code insertion--**Optional as per order**

System Diagram Illustration:



UDP (SPTS), RTP, RTSP, RTMP, HTTP, HLS (Unicast/Multicast)
Transfer through internet/LAN

Equipment Specifications:

Dimension(W×L×H): 440mm×324mm×44mm
Approx weight: 6kg
Environment: 0~45°C(work); -20~80°C(Storage)
Power requirements: AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz