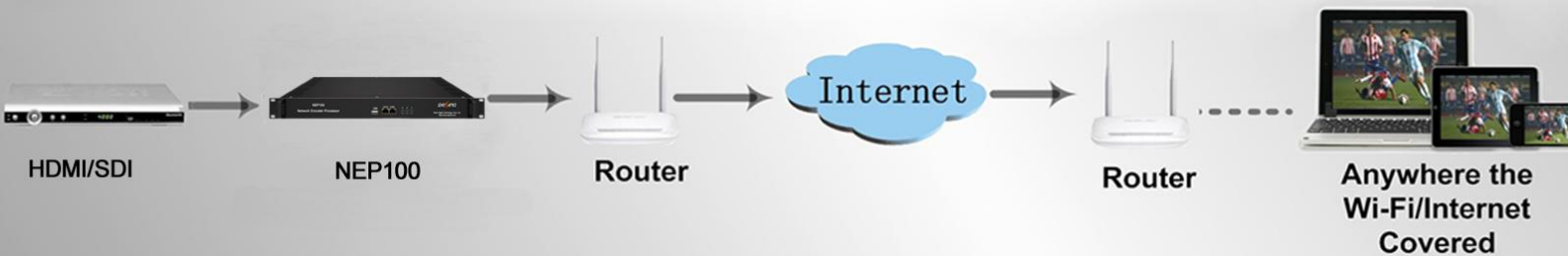




Multiple HDMI/SDI inputs

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 is only working with DX224H
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

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:

1920×1080_60P, 1920×1080_59.94P, 1920×1080_50P;

1280×720_60P, 1280×720_59.94P, 1280×720_50P

Input: 1920×1080_60i, 1920×1080_59.94i, 1920×1080_50i

Output: 1920×1080_60P, 1920×1080_59.94P, 1920×1080_50P

Chroma: 4:2:0

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

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

Sampling rate: 48KHz

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

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

4 HDMI Encoding Module



DX224HS

Module Specifications:

Input: 4*HDMI (1.4) input, HDCP 1.4

Video Encoding:

Video format: HEVC/ H.265 & MPEG4 AVC/H.264

Input Resolution: 1920×1080_60P, 1920×1080_50P, 1920×1080_59.94P,

1920×1080_60i, 1920×1080_50i, 1920×1080_59.94i,

1280×720_60P, 1280×720_59.94P, 1280×720_50P,

Output Resolution: 1920×1080_60P, 1920×1080_50P, 1920×1080_30P,

1920×1080_25P, 1280×720_60P, 1280×720_50P

Chroma: 4:2:0

GOP structure: IP, IBBP, IBPPP

Video Bit-rate: 1Mbps~15Mbps per channel

Rate Control: CBR/VBR

Audio Encoding:

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

Sampling rate: 48 KHz

Resolution: 24-bit

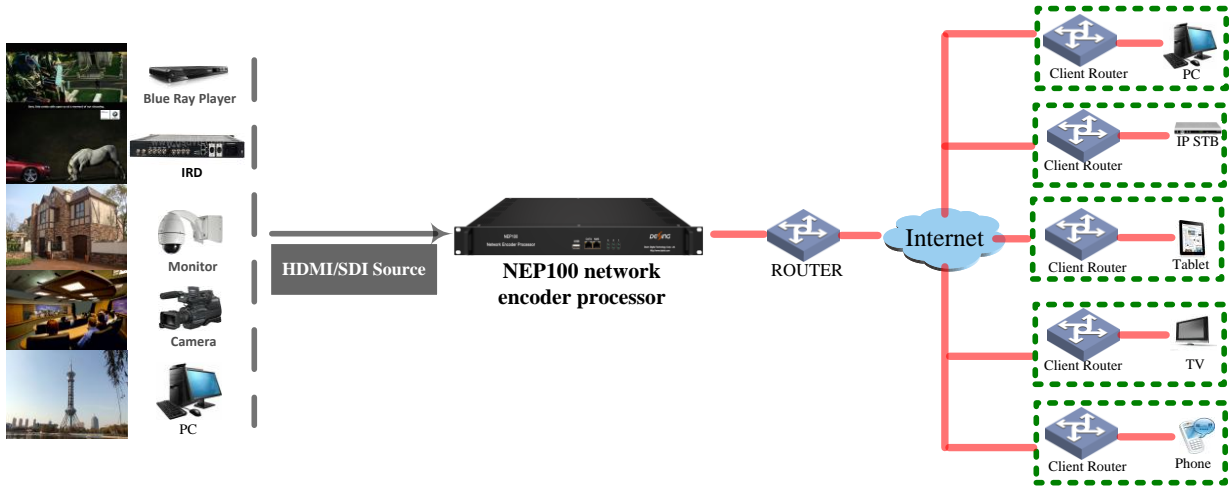
Audio Bit-rate (per channel):

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

24 Kbps~128 Kbps (HE-AAC), 18 Kbps~56 Kbps (HE-AAC V2)

Others: Support Logo, Caption, QR Code insertion

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