

SMN IPR100

Satmission Live Now IP Router



Buffer and redistribute video over Internet and other IP nets or advanced video receiver

Live Now IP routers are used for connecting video links, to change IP streams between unicast and multicast or to add or remove error correction. Live Now IP Router SMN IPR100 can be customized with transcoding, multiview and SDI outputs. It then becomes an advanced receiver with many different areas of use.

Important characteristics

A Live Now IP Router in an IP link system gives foremost the following advantages.

Supervision and alarms

IP streams, which enters a Live Now IP Router can be supervised and trouble shooted via Live Now manager system for statistics and supervision.

Error correction

Forward Error Correction (FEC).

Access control

On Live Now IP Router SMN IPR100, one can control access to input streams on each respective input.

Multichannel

Live Now IP Router SMN IPR100 has eight separate inputs, which can be configured individually. More inputs can be added.



Format, 19" rack, all connectors on the rear side. Power supply is built in and 100 – 240V AC is fed using an ordinary power cord.

- Multiple output streams on each channel
- Easy to configure via display and keypad
- Can be controlled via web interface over network
- Settings can be stored in profiles
- Peak Program Meter (PPM) shows if audio is present
- By connecting a USB storage, Direct router can record to files
- Backup settings and upgrade software via web interface or Live Now manager
- Live Now manager system for statistics, supervision and troubleshooting
- Can receive video streams from a number of different units
- Can resend video streams to a number of different receivers
- Recorded files can be downloaded via the web interface
- Adaptive bitrate
- Network bonding

Technical Specifications

Transport in/out	MPEG2-TS over IP (ISO/IEC13818-1) - UDP and TCP RTP (RFC 3550, 2250, 3640,3984) (option) RTMP (option), FEC
Digital out SDI (option)	SMPTE 259M, SMPTE 272M (SD) SMPTE 292M, SMPTE 299M (HD)
Resolutions out SDI (options)	PAL, NTSC, 720p/50,720p/59.94, 720p/60, 1080p/23.98, 1080p/24, 1080i/25, 1080i/29.97, 1080i/30
Interface in/out	Dual Ethernet 10/100/1000, RJ45
Hard disk for archiving	External USB2.0
Size 1U (without removable rack brackets)	425 x 380 x 45 (w x d x h) Fits in 19" rack (1 height unit)
Weight approximately	5200g

Options

Live Now IP Router SMN IPR100 is primarily customised using options. Other customer tailored solutions are made on order.

Full Duplex Intercom

Live Now IP Router SMN IPR100 can connect to other Live Now units for audio communication. The option gives two full duplex mono channel, for example control room and studio return.

Multiple video inputs

Live Now IP Router SMN IPR100 can be customised with multiple video inputs, which gives the possibility to send multiple different video streams.

Transcoding

Live Now IP Router SMN IPR100 can transcode a stream with video and audio to MPEG2- or H.264-format in a specific encoding mode before it redistributes it. This option is available for web TV or broadcast.

Multiview

Multiple inputs on Live Now IP Router SMN IPR100 can be encoded as a multiview video in MPEG2- or H.264-format.

SDI outputs

With one or multiple SDI outputs (HD/SD) Live Now IP Router SMN IPR100 becomes an advanced video receiver with many areas of use. The user can connect IP inputs with SDI outputs and by this way use many more Live Now IP Encoders than the physical outputs available. One SDI output can also be used for multiview.

Extra LAN

Extra network interfaces can be useful if Direkt router distributes video streams over multiple networks.

RTP or RTMP out

Live Now IP Router SMN IPR100 can have support for sending video streams using RTP and/or RTMP as transport instead of MPEGTS. RTP and RTMP streams can be received and redistributed by streaming servers for web TV. RTP is for sending to Apple Quicktime Streaming Server and Darwin Streaming Server. RTMP works fine with Adobe Flash Media Streaming Server and Wowza media server.

Encryption

The video stream between Satmission Live Now IP Encoder, Live Now IP router and Live Now IP Receiver can be encrypted and authenticated in a very secure way if needed.

Internal hard disk

Live Now IP Router SMN IPR100 which is often used for recording video can be equipped with internal hard disk or a RAID system with multiple disks.

Redundant power supply

Live Now IP Router SMN IPR100 can be customised with redundant power supply for highest possible availability.

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