

## SDI encoder

The demand for video transport over Ethernet is getting higher every day. C4IP combines broadcast quality video and audio with the latest IP transport technology. Transporting video and audio over IP is normally used for consumer markets, with high delay and low quality. Most developers who use streaming platforms have the same problem; how to reduce bandwidth and delay without losing quality of the video feed.

The RE-1142 SD-SDI encoder is able to maintain quality with low delay for a wide range of applications. With the RE-1142 you are able to create a DVB compliant transport stream over IP, this DVB over IP stream can be used for multiple types of DVB:

- DVB-C
- DVB-S
- DVB-H
- DVB-T

To ensure security, the RE-1142 is able to transmit your stream encrypted. Anything or anybody that tries to connect with the unit will need to have the encryption code and special receiver hardware; this way of security makes sure that only you are using the video feed.

C4IP has the world's first DMC (Digital Media Cloud), with this DMC we can manage and control all your video links. When you need 24/7 monitoring on your links without investing in employees, C4IP can do that for you. This way we can also setup temporarily links and create large distribution system.

We can also provide you with professional IP links to the DMC that have 99,9% uptime guaranty. When you need a Locale or International media link; C4IP provides the solution that delivers the Broadcast quality and stability needed. With our wide range of products, any solution is at hand for your application.



## Application

The RE-1142 is a 1U rack mountable system with 4 x 1000 base-T connections that allow you create separate "Media-network" platforms.

Configuration is done via Web interface which can be accessed on all connections to the encoder with username and password.

When you want to create your own IPTV channel, the RE-1142 is the fundament for encoding the signal to a DVB compliant stream.

If you want to show your content live to any location in the world, the unit can be configured with our LLTP (Low Latency Transport Protocol). This way it is possible to create a video link with delays between 0.5 and 1.0 seconds (depending on the network).

SNMP traps and E-mail notification can be enabled, to ensure automated monitoring of the stream and the encoder.

There are now three transport protocols available within the encoder:

- UDP
- RTP
- LLTP

Increase your bouquet of channels with this high quality, but low cost transmission solution.

## Specifications

<b>Form Factor</b>	19" 1U Rackmount Server 420 mm deep
<b>AC Input</b>	100 ~ 240V, 50 ~ 60Hz
<b>Power consumption</b>	ATX 300W
<b>Operating Temp.</b>	0 ~ 45°C (32 ~ 113°F)
<b>Operating Humidity</b>	5 ~ 95% (non-condensing)

## AV I/O

<b>Video input</b>	SD-SDI
<b>Video format</b>	PAL, NTSC
<b>Audio input</b>	SDI embedded audio, AES-EBU
<b>Controlling Monitoring</b>	Web interface SNMP, E-mail
<b>Video Codec</b>	H.264 AVC, Mpeg-2, Mpeg-1
<b>Video Bit rate</b>	100 ~ 20000 Kbps
<b>Audio Codec</b>	AAC, MPGA, LPCM,
<b>Audio Bit rate</b>	between 32 and 320 KBit