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Dibsys Technologies ENC316X Up To 48 SD Channels MPEG-4 Encoder Instructions

Contents

Dibsys Technologies ENC316X Up To 48 SD Channels MPEG-4 Encoder

Product Information

The ENC316X from Dibsys Technologies is a video encoder that can simultaneously perform SD H.264

compression encoding on up to 48 analog audio and video input signals. It outputs the encoded content through the IP interface. This product is designed for use in the digital TV network front end and supports WEB-based management. With efficient bitrate utilization, high reliability, and advanced compress arithmetic, the ENC316X can transmit high-quality video content at the lowest possible bandwidth. It produces IP output data streams. The ENC316X is specifically designed for high channel density Distribution Video Engineering projects and is compatible with up to 48 RCA inputs. It is an ideal encoder for anyone looking for an easy and affordable way to support a large number of SD channels in a low-cost deployment.

Key Features

- 16/32/48 CVBS video input
- Video encoding: H.264 encoding
- Support ultra-low bit rate encoding
- Encoding resolution: 720 * 576P@25, 720 * 480P@30
- Audio encoding: MPEG1 Layer II
- Supports PAL and NTSC SD video formats
- PSI/SI: PAT PMT SDT insert
- Independently set audio encoding bit rate: 64, 96, 128, 192Kbps (MPEG-1 L2)
- Video output bit rate range: 0.5 – 3.2Mbps
- System output bit rate range: 2 – 60Mbps
- MPEG TS-over-IP output, support SPTS mode
- UDP/RTP payload is 7 TS streams with a length of 188 bytes
- Automatically save user's configuration
- Power-down memory function
- Dual Power supply
- Easy-to-Use System Management and updates via Web Application

Application

The ENC316X is suitable for the following applications:

- Digital TV, OTT/IPTV head-end system
- Remote live rebroadcasts and real-time transmission
- SD video via private IP networks
- Carrier-grade Cable TV, Satellite Up-link
- Video over Coax Cable solution in Hotel, Campus, Enterprise

Technical Specifications

Input
Interface Input: DB15 TO RCA interface 16/32/48 CVBS Single board 4 groups (CVBS, L & R Audio)

Output

- IP Output Port Type Format: SPTS over UDP/RTP
- RJ-45 1000 Base-T MPEG TS-over-IP

Video Coding

- Encoding mode: MPEG4 AVC/H.264
- Bit rate: 0.5 – 3.2 Mbps
- Bit rate mode: CBR

Audio Coding

- Sampling Rates: 32KHz
- Bit rate: 96Kbps~192Kbps
- Encoding Format: MPEG1 Layer II

Management

- Interface: 1*RJ-45, 1000 Base-T
- Remote Control Language: Web management Chinese/English

Environment

- Power Supply: Power consumption
- Operation temperature
- Storage temperature
- Dimensions: Approx weight

Typical Order Information

Model	CVBS	IP out
ENC3161	16	16*SPTS
ENC3162	32	32*SPTS
ENC3163	48	48*SPTS

Product Usage Instructions

1. Connect the analog audio and video input signals to the appropriate RCA inputs on the ENC316X.
2. Ensure that the power supply is connected and turned on.
3. Access the web management interface by connecting a device to the RJ-45 port on the ENC316X and opening a web browser.
4. In the web management interface, configure the desired video encoding settings, such as resolution and bit rate.
5. Configure the audio encoding settings, including the sampling rate and bit rate.
6. If necessary, set the PSI/SI parameters for the encoded streams.
7. Save the configuration to ensure it is automatically loaded after power-down.
8. Monitor the output bit rate and adjust it if needed within the supported range.

9. Ensure that the IP output port is connected to the desired network using an RJ-45 cable.
10. The ENC316X will start encoding and transmitting the video content over the IP network.

- ENC316X can simultaneously perform SD H.264 compression encoding on up to 48 analog audio and video input signals, and then output through the IP interface. This product can be applied to the source code of the digital TV network front end, and supports WEB-based management.
- With efficient bitrate utilization, high reliability and advanced compress arithmetic, it possible to transmit high quality video content at the lowest possible bandwidth. And produce IP output data streams.
- ENC316X is designed especially for high channel density Distribution Video Engineering project, compatibility Up to 48 RCA inputs. It's an ideal encoder for anyone looking for an easy and affordable way to support a large number of SD channels in low cost deployment.

Key Features

- 16/32/48*CVBS video input
- Video encoding: H.264 encoding
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- Automatically save user's configuration
- Power-down memory function
- Dual Power supply
- Easy-to-Use System Management and updates via Web

Application

- Digital TV, OTT/IPTV head-end system
- Remote live Rebroadcasts and real-time transmission
- SD video via private IP networks
- Carrier-grade Cable TV, Satellite Up-link
- Video over Coax Cable solution in Hotel, Campus, Enterprise

TECHNICAL SPECIFICATIONS

Input

- Interface DB15 TO RCA interface

- Input 16/32/48 CVBS

  Single board 4 groups (CVBS, L & R Audio)

Output

- IP Output Port SPTS over UDP/RTP
- Type RJ-45 1000 Base-T
- Format MPEG TS-over-IP

Video Coding

- Encoding mode MPEG4 AVC/H.264
- Bit rate 0.5 3.2 Mbps
- Bit rate mode CBR

Audio Coding

- Sampling Rates 32KHz
- Bit rate 96Kbps~192Kbps
- Encoding Format MPEG1 Layer II

Management

- Interface 1*RJ-45, 1000 Base-T
- Remote Control Web management
- Language Chinese/English

Environment

- Power Supply AC 110V, 50/60Hz, AC 240, 50/60Hz
- Power consumption 20 W
- Operation temperature 0°C ~45°C (32°F ~113°F)
- Storage temperature -20°C ~80°C (-4°F~176°F)
- Dimensions 482 (L)x410(W)x44mm(H) (1RU)
- Approx weight 8kg

Typical Order Information

Model	CVBS	IP out
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ENC3163	48	48*SPTS

Documents / Resources

Dibsys Technologies ENC316X Up To 48 SD Channels MPEG-4 Encoder [pdf] Instructions ENC316X Up To 48 SD Channels MPEG-4 Encoder, ENC316X, Up To 48 SD Channels MPEG-4 Encoder, SD Channels MPEG-4 Encoder, MPEG-4 Encoder, Encoder

References

- ◉ **China Encoder Decoder, Hotel IPTV, IPTV Solution Suppliers, Manufacturers, Factory, Company - Hangzhou HAOXUN Technologies Co.,Ltd**

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