# SMT-06-RTMP ENCODER

## Introduction:

- High stability, embedded design, low power consumption.
- Low compression bit rate
- Low coding delay, Code delay is less than 300 ms
- Advance Coding technology, the industry's first triple B frame prediction, Ensure clear images at the same time reduce the bandwidth limit.
- Most business adaptability is strong, support output protocol of the encoder,UDP, HTTP, RTSP/RTP, RTMP
- High cost performance, Support the HDMI , HD/SD-SDI,CVBS and analog input .
- Support H.264/AVC High Profile, Main Profile, Baseline.
- Audio coding support the AAC ，MPEG1 Audio Layer 2
- Support a variety of input video format, 1080P 1080I 720P and PAL NTSC
- Support the maximum resolution of 1080P,And any resolution of less than 1080P.
- Support release real-time stream for the live stream media server, Adobe FMS, Wowza,RED5 and so on
- Ease of use for everone, the embedded WEB configuration, the LCD front panel and button configuration.

## Function:

- Network Video Encoder is use the most advanced H.264/AVC video compression algorithm and MPEG4 AAC audio compression algorithm. In the harsh conditions of the low bandwidth also possess excellent video and audio reducing performance. The 1080P25/30 high-definition video can be display in 1MBPS video bit rate and 30 kbps audio bit rate video. We used the low delay coding technique. The 1080P25 code delay is less than 300 ms.
- In order to adapt to a variety of complex network audio and video application environment. 4G Live Kit provides a rich media streaming protocols. Forexample, RTMP, RTSP/RTP, HTTP, UDP and so on. The user can watch live video through the web_browser iPad iPhone Android and IP-STB. It's used widely in emergency communications, network video broadcast, mobile video

broadcast, teleconferencing, hotel VOD, campus radio, hospital expert consultation, and many other applications.

## Specifications:

| Input | Video | HD/SD-SDI (BNC) |
|---|---|---|
| | | HDMI (HDCP Support) |
| | | 720x480i/p 720x576i/p 1280x720p 1920x1080i/p |
| | Audio | HD/SD-SDI (BNC) |
| | | HDMI |
| | | Analog Double Channels |
| Video Encoding | Most Strong ability | 1920x 1080P30  1280x720P60 |
| | Pre-treatment | Support deinterlacing |
| | Code Standards | H.264/MPEG-AVC |
| | Compressibility | Minimum 1080P25  1Mbps |
| | Coding delay | All Supported is less than 100 second 300ms |
| | Resolution | 352x288~1920x1080 can be arbitrary regulatory |
| | Frame Rate | 8Hz-60Hz can be arbitrary regulatory |
| | Coding Class | High Profile, Main Profile, Baseline |
| | Hierarchy | Level 1.0-4.1 can be arbitrary regulatory |
| | Bit-Rate | 100kbps~20Mbps. Can be arbitrary regulatory |
| | Bit-Rate Control | CBR/VBR |
| | GOP Structure | I IP IBP IBBP IBBBP |
| | GOP Length | Can be arbitrary regulatory |
| Audio Encoding | Sampling Precision | 24 Bit |
| | Sampling Rate | 32KHz  44.1KHz  48KHz |
| | Channel | Stereo Mono-L Mono-R |
| | Code Standards | AAC MP2 |
| | Bit-Rate | 30Kbps~384Kbps |
| Output | Port | RJ45 x 2 10/100Mbps function of switch |
| | Output Protocols | TS Over UDP, HTTP, RTSP, RTMP |
| Device Management | Front Panel | LCD and Seven Keys |
| | Network | By Browsing the web management |

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