



## NDS3228A

## 8 In 1 Magnum Encoder

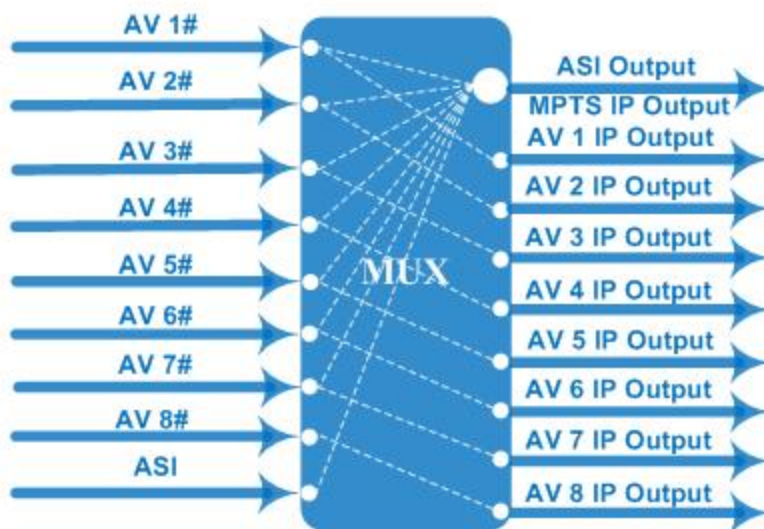
### HIGHLIGHTS

- 💡 Support H.264, Mpeg2 Encoding
- 💡 MPEG1 Audio Layer 2, LC-AAC, HE-AAC
- 💡 Support PSI/SI editing and inserting
- 💡 Supports VBR/CBR video encoding
- 💡 Supports ultra low bit rate encoding
- 💡 Supports MPTS or 8 SPTS UDP IP Output
- 💡 Real-time output bit-rate monitoring
- 💡 LCD / keyboard and NMS operation

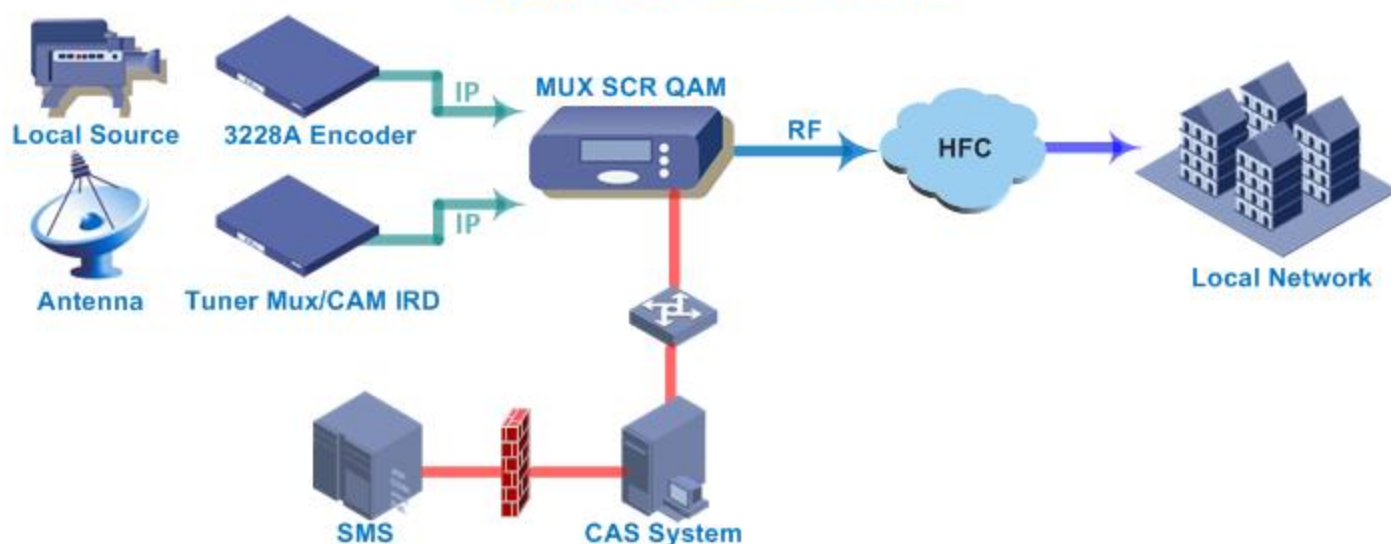
The DEXIN NDS3224A 8 in 1 MPEG-2 H.264 SD Encoder is our newest professional SD audio & video encoding and multiplexing device with powerful functionality. It has 8 independent channels of unbalanced audio & video input interfaces, supporting MPEG-2 and H.264 encoder type. Furthermore, it can support the MPEG-1 Audio layer 2, LC-ACC, HE-AAC, and each channel can support ultra low bit-rate (0.25~15Mbps for H.264 encoding, and 0.5~15Mbps for MPEG-2 encoding). Moreover, it has an ASI input and can multiplex the input TS with the 8 encoded SPTS to generate a MPTS output, and users can select the MPTS and 8SPTS through the front panel operation.



### Inner Principle



## System Connection Sample



## Specification

### Input

|           |                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------|
| Interface | 8×CVBS inputs , BNC interface<br>8 pairs unbalanced stereo audio inputs, BNC interface<br>1×ASI input, BNC interface |
|-----------|----------------------------------------------------------------------------------------------------------------------|

### Video

|            |                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution | PAL: 720*576/352*288/320*240/320*180/176*144/<br>160*120/160*90@50Hz<br>NTSC: 720*480/352*288/320*240/320*180/176*144/<br>160*120/160*90@59.94Hz |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                                                                  |
|----------|------------------------------------------------------------------|
| Encoding | MPEG-2 /H.264                                                    |
| Bit rate | 0.25~15Mbps for H.264 encoding<br>0.5~15Mbps for MPEG-2 encoding |

|                       |                                             |
|-----------------------|---------------------------------------------|
| Rate Control          | CBR/VBR                                     |
| GOP Structure         | IBBP                                        |
| Advanced Pretreatment | De-interlacing, noise reduction, sharpening |

### Audio

|               |                                     |
|---------------|-------------------------------------|
| Encoding      | MPEG1 Audio Layer 2, LC-AAC, HE-AAC |
| Sampling rate | 48KHz                               |
| Resolution    | 24 bit                              |
| Bit-rate      | 64Kb/s~384Kb/s (each channel)       |

### Multiplexing

|                                                  |
|--------------------------------------------------|
| 1 ASI input multiplexed with local 8 channels TS |
|--------------------------------------------------|

### Stream Output

|                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|
| 2 × ASI outputs, BNC interface<br>MPTS over UDP, 10/100Base-T Ethernet interface (UDP unicast / multicast),<br>8 SPTS( optional) |
|----------------------------------------------------------------------------------------------------------------------------------|

### System function

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| LCD/keyboard operating, NMS support, Ethernet software upgrade<br>Chinese-English control interface |
|-----------------------------------------------------------------------------------------------------|

### General

|                   |                                              |
|-------------------|----------------------------------------------|
| Demission (WxLxH) | 482mm×455mm×44.5mm                           |
| Weight            | 4kg                                          |
| Temperature       | 0~45℃(operation), -20~80℃(storage)           |
| Power Supply      | AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz |
| Consumption       | 25W                                          |