

Encoder 24HDMI – Modulador ISDB T- 16 Portadora.



DESING



DESCRIPCION

Encoder 24 Entradas HDMI y Modulador 16 portadoras ISDB-T / Salida IP

MODELO

NDS3536S

CODIGO WT

4223425

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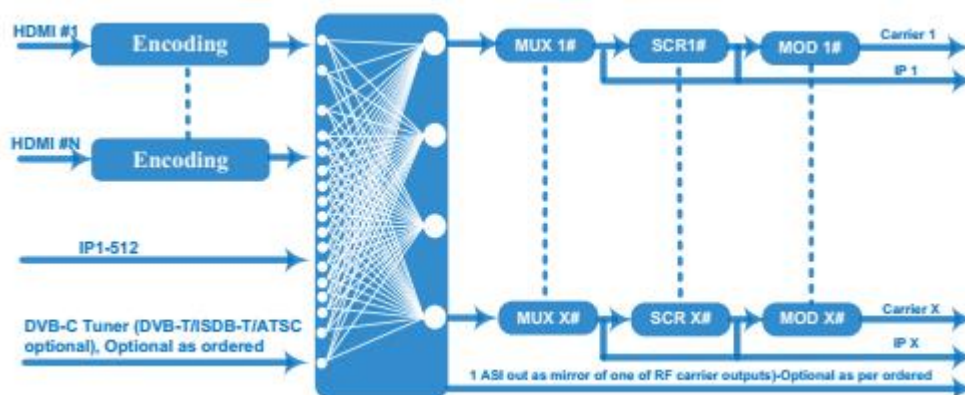
1 - APLICACIÓN

NDS3536S es un dispositivo profesional de alta integración que incluye codificación, multiplexación y modulación. Soporta 8/16/24 entradas HDMI, 1 entrada ASI, 1 entrada USB payer y 128 entradas IP, vía el puerto GE. También admite salida DVB-C RF con 12 acarreos no adyacentes o salida DVB-T/ATSC RF con 8 portadoras no adyacentes, o salida ISDB-T RF con 6/16 portadoras no adyacentes y soportes 12/8/6/16 MPTS como espejo de 12/8/6/16 portadores a través del puerto GE y 1 salida ASI como espejo de uno de los transportistas. Este dispositivo de funciones completas lo hace ideal para pequeños sistemas de cabecera de CATV, y es una elección inteligente para el sistema de TV del hotel, sistema de entretenimiento en bares deportivos, hospitales.

2 - CARACTERÍSTICAS

- 8/16/24 HDMI inputs, MPEG-4 AVC/H.264 Video encoding
- 1 ASI input for re-mux
- 1 USB Player (Insert the USB Flash drive with “xxx.ts” videos in NDS3536S and play back the content in an easy way; file system FAT 32.)
- **128 IP input over UDP and RTP via GE port**
- **Each carrier out channel process maximum 32 IP from the GE port(UDP&RTP protocol)**
- MPEG1 Layer II, LC-AAC and HE-AAC Audio encoding, AC3 Pass Through and audio gain adjustment
- Support 12 groups multiplexing/DVB-C modulating
- Support 8 groups multiplexing/DVB-T/ATSC modulating---Optional
- Support 6 (or 16) groups multiplexing/ISDB-T modulating---Optional
- Support 1 ASI out as mirror of one of RF output carriers---Optional
- Support 12 MPTS IP output over UDP, RTP/RTSP--DVB-C RF out
- **Support 8 MPTS IP output over UDP, RTP/RTSP-- DVB-T/ATSC RF out**
- **Support 6 (or 16) MPTS IP output over UDP, RTP/RTSP-- ISDB-T RF out**
- **Support LOGO, Caption and QR code insertion**(Language Supported: 中文, English, العربية, ไทย, हिन्दी, русский, اردو, for more languages please consult us...)
- Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting
- Control via web management, and easy updates via web

3 – Diagrama modular



4 – Especificaciones Técnicas

| | | | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input | 8/16/24 HDMI inputs for option 1 ASI in for re-mux 1 USB Player input for re-mux 128 IP input over UDP and RTP, GE port, RJ45—DVB-C RF out 128 IP input over UDP and RTP, GE port, RJ45—DVB-T/ATSC RF out 128 IP input over UDP and RTP, GE port, RJ45—ISDBT RF out | | |
| | Video | Resolution | Input 1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i, 720×480_60i, Output 1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P, 720×480_30P, |
| Encoding | | MPEG-4 AVC/H.264 | |
| | Bit-rate | 1Mbps~13Mbps each channel | |
| | Rate Control | CBR/VBR | |
| | GOP Structure | IP...P (P Frame adjustment, without B Frame) | |
| Audio | Encoding | MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass through | |
| | Sampling rate | 48KHz | |
| | Resolution | 24-bit | |
| | Audio Gain | 0-255 Adjustable | |
| | MPEG-1 Layer 2 Bit-rate | 48/56/64/80/96/112/128/160/192/224/256/320/384 kbps | |
| | LC-AAC Bit-rate | 48/56/64/80/96/112/128/160/192/224/256/320/384 kbps | |
| | HE-AAC Bit-rate | 48/56/64/80/96/112/128 kbps | |

4 – Especificaciones Técnicas

| | | | | |
|--------------------------------------|-----------------------|--------------------------------------------|------------------------------------------------------------|------------|
| Multiplexing | Maximum PID Remapping | 255 input per channel | | |
| | Function | PID remapping (automatically or manually) | | |
| | | Accurate PCR adjusting | | |
| Generate PSI/ SI table automatically | | | | |
| Modulation | DVB-C | QAM Channel | 12 non-adjacent carriers output (maximum bandwidth 192MHz) | |
| | | Standard | EN300 429/ITU-T J.83A/B | |
| | | MER | ≥40db | |
| | | RF frequency | 50~960MHz, 1KHz step | |
| | | RF output level | -20~+3dbm, 0.1db step | |
| | | Symbol Rate | 5.0Msps~7.0Msps, 1ksps stepping | |
| | | | J.83A | J.83B |
| | | Constellation | 16/32/64/128/256QA M | 64/256 QAM |
| | Bandwidth | 8M | 6M | |
| | DVB-T | Standard | EN300744 | |
| FFT mode | | 2K,4K, 8K | | |

| | | | | |
|-----------------|-----------------------------------------------------------|-----------------|-----------------------------------------------------------|--|
| | | Bandwidth | 6M, 7M, 8M | |
| | | Constellation | QPSK, 16QAM, 64QAM | |
| | | Guard Interval | 1/4, 1/8, 1/16, 1/32 | |
| | | FEC | 1/2, 2/3, 3/4, 5/6, 7/8 | |
| | | MER | ≥42 dB | |
| | | RF frequency | 50~960MHz, 1KHz step | |
| | | RF out | 8 non-adjacent carriers output (maximum bandwidth 192MHz) | |
| | | RF output level | -20~ +3dBm, 0.1db step | |
| | ATSC | Standard | ATSC A/53 | |
| | | Bandwidth | 6M | |
| | | Constellation | 8VSB | |
| | | FEC | RS(208 188)+Trellis | |
| | | MER | ≥40dB | |
| | | ACL | -55 dBc | |
| | | RF frequency | 50~960MHz, 1KHz step | |
| RF out | 8 non-adjacent carriers output (maximum bandwidth 192MHz) | | | |
| RF output level | -20~+3dbm (for all carriers), 0.5db stepping | | | |

4 – Especificaciones Técnicas

| | | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ISDB-T | Standard | ARIB STD-B31 |
| | Bandwidth | 6M |
| | Constellation | QPSK, 16QAM, 64QAM |
| | Guard Interval | 1/32, 1/16, 1/8, 1/4 |
| | Transmission Mode | 2K, 4K, 8K |
| | Code rate | 1/2, 2/3, 3/4, 5/6, 7/8 |
| | MER | ≥40dB |
| | RF frequency | 50~960MHz, 1KHz step |
| | RF out | 6 (or 16) non-adjacent carriers output (maximum bandwidth 192MHz) |
| | RF output level | -20dBm~+3dBm, 0.1dB stepping |
| Stream output | 1 ASI output as mirror of one of RF output carriers(Optional) 12 MPTS output over UDP and RTP/RTSP as mirror of 12 DVB-C carriers, 8 MPTS output over UDP and RTP/RTSP as mirror of 8 DVB-T/ATSC carriers(Optional) 6 MPTS output over UDP and RTP/RTSP as mirror of 6 ISDB-T carriers(Optional) 16 MPTS output over UDP and RTP/RTSP as mirror of 16 ISDB-T carriers(Optional) 1*1000M Base-T Ethernet interface, GE port | |
| System function | Network management (WEB) | |
| | Chinese and English language | |
| | Ethernet software upgrade | |
| Miscellaneous | Dimension (W×L×H) | 482mm×328mm×44mm |
| | Environment | 0~45℃(work); -20~80℃ (Storage) |
| | Power requirements | AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz |

Ordering Information

| | | IP input | IP output | RF carriers | Scrambling |
|------------|----|----------|-----------|-------------|------------|
| DVB-C out | | 128 | 12 | 12 | N/A |
| DVB-T out | | 128 | 8 | 8 | N/A |
| ATSC out | | 128 | 8 | 8 | N/A |
| ISDB-T out | V1 | 128 | 6 | 6 | N/A |
| | V2 | 128 | 16 | 16 | N/A |