



NDS3528S/3524S

Encoder Modulator



OSD (Logo/Caption/QR Code) Insertion



Product Overview

NDS3524S/NDS3528S is a professional high integration device which includes encoding, multiplexing, and modulating in one box. It supports 4/8 HDMI inputs and DVB-C/T RF out with 2/4 adjacent carries and 2/4 MPTS out as mirror out of the 2/4 modulation carriers via DATA (GE)



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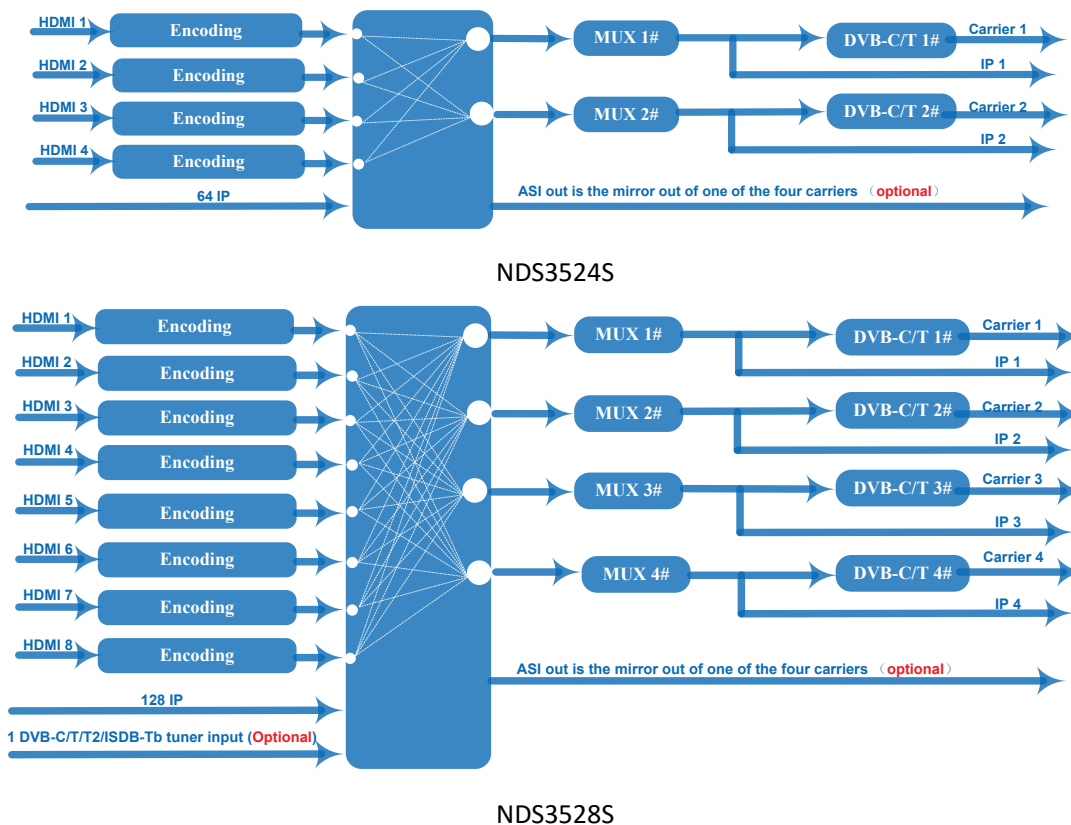
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port. This full function device makes it ideal for small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

Key features

- Support LOGO, OSD and QR code insertion for every local channel (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русская, اردو, for more languages please consult us...)
- 4/8 HDMI input, MPEG-4 AVC/H.264 Video encoding
- MPEG1 Layer II, LC-AAC, HE-AAC audio encoding format and AC3 Pass Through and support audio gain adjustment
- 1 DVB-C/T/T2/ISDB-Tb tuner input for re-mux (Optional for NDS3528S with DVB-C RF out version)
- 2/4 groups of multiplexing/modulating output channels (scrambling function optional for NDS3528S with DVB-C RF out version)
- 2/4 DVB-C or DVB-T carrier out with each carrier channel processing maximum 32 IP from DATA input port
- Support 64/128 IP inputs, 2/4 MPTS IP output over UDP and RTP/RTSP
- Support PID remapping/PSI/SI editing and inserting
- Control via web management, and easy updates via web

Principle Chart



Technical Specification

| | | | | |
|---|--|--|---|------------|
| Input | 4/8 HDMI inputs; 64/128 IP inputs; 1 DVB-C/T/T2/ISDB-Tb tuner input for re-mux (Optional for NDS3528S with DVB-C RF out version) | | | |
| Video | Encoding | MPEG-4 AVC/H.264 | | |
| | Resolution | In-put | 1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i,720×480_60i, | |
| | | Out-put | 1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P,720×480_30P, | |
| | Bit-rate | 1Mbps~13Mbps each channel | | |
| | Rate Control | CBR/VBR | | |
| 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 | | |
| Multiplexing | Maximum PID Remapping | 180 input per channel | | |
| | Function | PID remapping (automatically or manually) Generate PSI/ SI table automatically | | |
| Scrambling (optional for NDS3528S with DVB-C RF out version) | Maximum simulcrypt CA | 4 | | |
| | Standard | ETR289, ETSI 101 197, ETSI 103 197 | | |
| | Connection | Local/remote connection | | |
| Modulation | DVB-C | RF out | 2/4*RF DVB-C out (2/4 carriers combined output), F type interface | |
| | | Standard | EN300 429/ITU-T J.83A/B | |
| | | MER | ≥40db | |
| | | RF frequency | 50~960MHz, 1KHz step | |
| | | RF output level | -25~-1dBm (82~105 dbμV), 0.1dBm | |
| | | Symbol Rate | 5.0Msps~7.0Msps, 1ksps stepping | |
| | | | J.83A | J.83B |
| | | Constellation | 16/32/64/128/256QAM | 64/256 QAM |
| | Bandwidth | 8M | 6M | |
| | DVB-T | RF out | 2/4*RF COFDM DVB-T out (2/4 carriers combined output) ,F type interface | |

| | | | |
|------------------------|---|--|--------------------------------------|
| | | Standard | EN300744 |
| | | FFT mode | 2K, |
| | | 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 output level | -28~ -3 dBm (77~97 dBμV), 0.1db step |
| Stream output | 2/4 IP MPTS output over UDP/RTP/RTSP, 1*1000M Base-T Ethernet interface | | |
| System function | Network management(WEB) | | |
| | Chinese and English language | | |
| | Ethernet software upgrade | | |
| Miscellaneous | Dimension (W×L×H) | 482mm×328mm×44mm | |
| | Environment | 0~45°C(work); -20~80°C (Storage) | |
| | Power requirements | AC 110V± 10%, 50/60Hz, AC 220 ±10%,50/60Hz | |

Order Guide

| | NDS3524S | NDS3528S (DVB-C Out) | NDS3528S (DVB-T Out) |
|----------------------------------|----------|----------------------|----------------------|
| HDMI input | 4 | 8 | 8 |
| IP input | 64 | 128 | 128 |
| 1 DVB-C/T/T2/ISDB-Tb tuner input | N/A | Option as order | N/A |
| Scrambling function | N/A | Option as order | N/A |
| IP output | 2 MPTS | 4 MPTS | 4 MPTS |
| DVB-C/T RF output channel | 2 | 4 | 4 |