

SOFTTEL

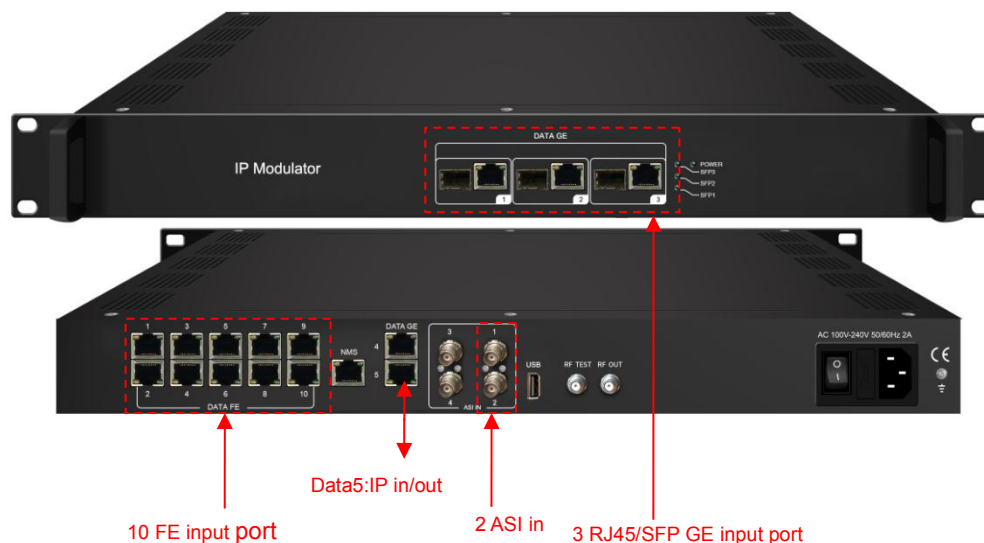


SFT3344M

28 in 1 ISDB-T & 32 in 1 DVB-T & 48 in 1 DVB-C Modulator



- ▶ **ISDB-T/DVB-T /DVB-C RF in one device, Modulation dynamic switching**
- ▶ **3 GE/SFP+2 GE+10 FE date ports**
- ▶ **license upgratable for carrier number**



Product Overview

SFT3344M 28 in 1 ISDB-T & 32 in 1 DVB-T & 48 in 1 DVB-C is the latest generational Mux-modulating device developed by SOFTTEL. It supports maximum 128 IP input through the 3 GE/SFP port and 2 GE ports, 32 IP input through the 10 FE port, and also has 2 ASI input. After 28&32&48 multiplexing, it gives 28 ISDB-T & 32 DVB-T & 48 DVB-C non-adjacent carriers (50MHz~960MHz), 28&32&48 IP (MPTS) output as mirror of carriers. The device is characterized with high integrated level, high performance and low cost. This is very

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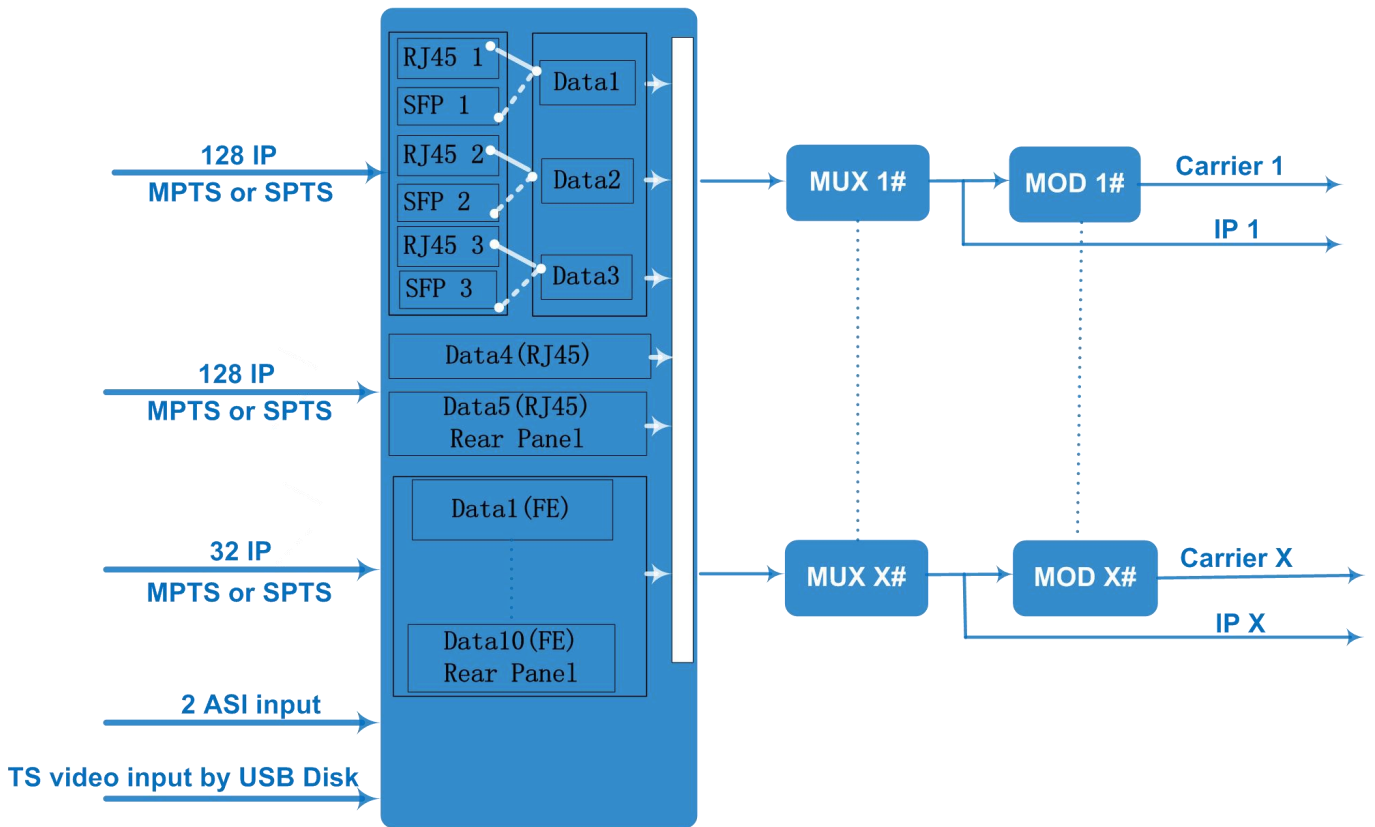
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adaptable to newly generation DTV broadcasting system.

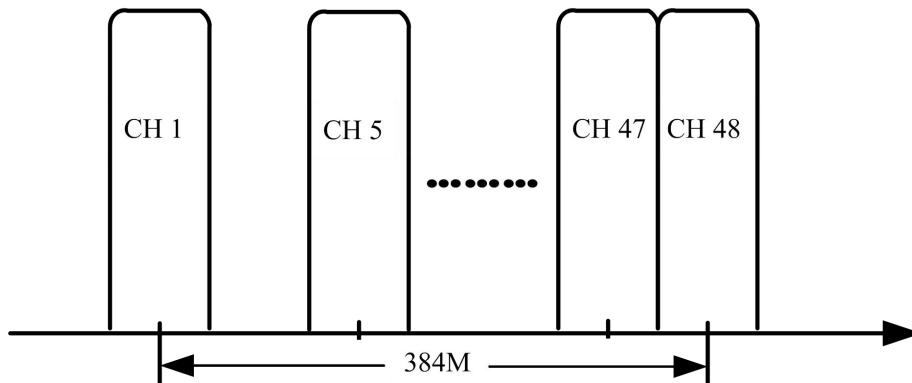
Key Features

- **3 RJ45 /SFP GE ports (each port max 128 IP in):**
Data1&2&3 ports only for input
- **2GE ports (each port max 128 IP in):**
Data4 is input ports
Data5 is bi-directional ports, 28&32&48 IP out (as mirror of 28 ISDB-T&32 DVB-T &48 DVB-C out version)
- **10 FE ports (each port max 32 IP in):**
Date1-Date10 all for input
- **ISDB-T/DVB-T /DVB-C RF in one device, Modulation dynamic switching(only two modulation options can be chosen in on device)**
- Supports accurate PCR adjusting
- Max 840Mbps for each input
- Supports PID remapping and PSI/SI editing , PIDs remapping per channel
- Supports up to 256
- Supports 2ASI input
- Support 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)
- Support 28 &32 &48 multiplexed TS over UDP/RTP output
- 28 ISDB-T /32 DVB-T /48 DVB-C non-adjacent carriers output, compliant to ARIB STD-B31 standard/ ETSI EN300 744 standard/ DVB-C (EN 300 429) and ITU-T J.83 A/B/C
- Support Web-based Network management

Inner Principle Chart



Carrier Setting Illustration:



Specifications

| | | |
|---------------------|--------------|--|
| <p>Input</p> | <p>Input</p> | <p>28 ISDB-T & 32 DVB-T & 48 DVB-C carriers: Max 128 IP input through Date1-Date5, 100/1000M Ethernet Port (Date1-Date3 are SFP interface optional). Each Data port can input max 128 IP.</p> <p>Max 32 IP input through Date1-Date10 (FE port, Rear panel), 100M Ethernet Port, Each Data port can input max 32 IP.</p> |
|---------------------|--------------|--|

| | | | |
|---------------------------------------|---------------------|--|------------------------------------|
| | | 2ASI input, BNC interface | |
| | | 1 USB Player input for re-mux (“xxx.ts” video) | |
| | Transport Protocol | TS over UDP/RTP, unicast and multicast, IGMP V2/V3 | |
| | Transmission Rate | Max 840Mbps for each input channel | |
| Mux | Input Channel | 128(or 32) | |
| | Output Channel | 28(ISDB-T) or 32 (DVB-T)or 48(DVB-C) | |
| | Max PIDs | 256 per channel | |
| | Functions | PID remapping(auto/manually optional) | |
| PCR accurate adjusting | | | |
| PSI/SI table automatically generating | | | |
| Modulation Parameters (ISDB-T) | Channel | 16/20/24/28(License gradable) | |
| | Modulation Standard | ARIB STD-B31 | |
| | Constellation | QPSK, 16QAM, 64QAM | |
| | Bandwidth | 6MHz | |
| | Transmission Mode | 2K/4K/8K | |
| | Code rate | 1/2, 2/3, 3/4, 5/6, 7/8 | |
| RF Output (ISDB-T) | Interface | F typed output port for 28 non-adjacent carriers | |
| | RF Range | 50~960MHz, 1kHz stepping | |
| | Output Level | -20dBm~1dBm(87~108db μ V), 0.1dB stepping | |
| | MER | \geq 40dB | |
| | ACL | -50 dBc | |
| Modulation Parameters (DVB-T) | Channel | 16/20/24/28/32(License gradable) | |
| | Modulation Standard | ETSI EN300 744 | |
| | Constellation | QPSK/16QAM/64QAM | |
| | Bandwidth | 6/7/8 MHz | |
| | Transmission Mode | 2K/4K/8K | |
| | Code rate | 1/2,2/3,3/4,5/6,7/8 | |
| RF Output (DVB-T) | Interface | F typed output port for 32 non-adjacent carriers | |
| | RF Range | 50~960MHz, 1kHz stepping | |
| | Output Level | -20dBm~0dBm(87~107db μ V), 0.1dB stepping | |
| | MER | \geq 40dB | |
| | ACL | -55 dBc | |
| Modulation Parameters (DVB-C) | Constellation | J.83A | Constellation :16/32/64/128/256QAM |
| | | | Bandwidth :8M |
| | Constellation | J.83B/C | Constellation :64/256QAM |
| | | | Bandwidth :6M |

| | | |
|--------------------------|--|--|
| | QAM Channel | 32/36/40/44/48(License gradable) |
| | Symbol Rate | 5.0~7.0Msps, 1ksps stepping. 5057Ksps (J.83B, 64QAM) ; 5361Ksps (J.83B, 256QAM) |
| | Constellation | 16, 32, 64 , 128, 256QAM |
| RF Output (DVB-C) | Interface | F typed output port for 48 non-adjacent carriers |
| | RF Range | 50~960MHz, 1kHz stepping |
| | Output Level | -20dBm~-3dBm(87~104dbμV), 0.1dB stepping |
| | MER | ≥ 40dB |
| | ACL | 50~960MHz, 1kHz stepping |
| TS output | 28&32&48 IP output over UDP/RTP, unicast/multicast, Data1 100/1000M Ethernet Ports | |
| System | Web-based Network management | |
| General | Demission | 420mm×440mm×44.5mm (WxLxH) |
| | Temperature | 0~45°C(operation), -20~80°C(storage) |
| | Power Supply | AC100V±10%, 50/60Hz or AC 220V±10%,50/60Hz |

Order Guide

| Modulation combination | DVB-C/DVB-T | DVB-C/ISDB-T | DVB-T/ISDB-T |
|--|-------------|--------------|--------------|
| Carrier support (Increase every four carriers) | 32~48/16~32 | 32~48/16~28 | 16~32/16~28 |

| Modulation | Carrier number(Increase every four carriers by license) | | | | |
|--------------|--|----|----|----|----|
| | 32 | 36 | 40 | 44 | 48 |
| DVB-C | 32 | 36 | 40 | 44 | 48 |
| DVB-T | 16 | 20 | 24 | 28 | 32 |
| ISDB-T | 16 | 20 | 24 | 28 | / |
| Note: | Different combination of carrier number can be selected, Need to be confirmed before an order | | | | |