



## **OVERVIEW**

DMB-9582-S2 Encoding & Modulator is a high-integration, high video quality, high-stability and multi-function digital TV head-end device, encoding module support hot-swappable design. Adopting the state-of-the-art Audio & Video compression technology, it features higher video quality, shorter latency and lower bit rate. There are varieties of encoding modules for your option. Moreover, index parameter of DVB S/S2 RF out is excellent, enabling its application to professional satellite uplink. DMB-9582-S2 has one ASI output, which can be used as other modulator's program source. Additionally, the device can also serve as independent encoder and independent modulator. The Encoding & Modulator supports program sources from video and surveillance control camera or HD STB, HD camera or play out server, PC and other diversified video source.

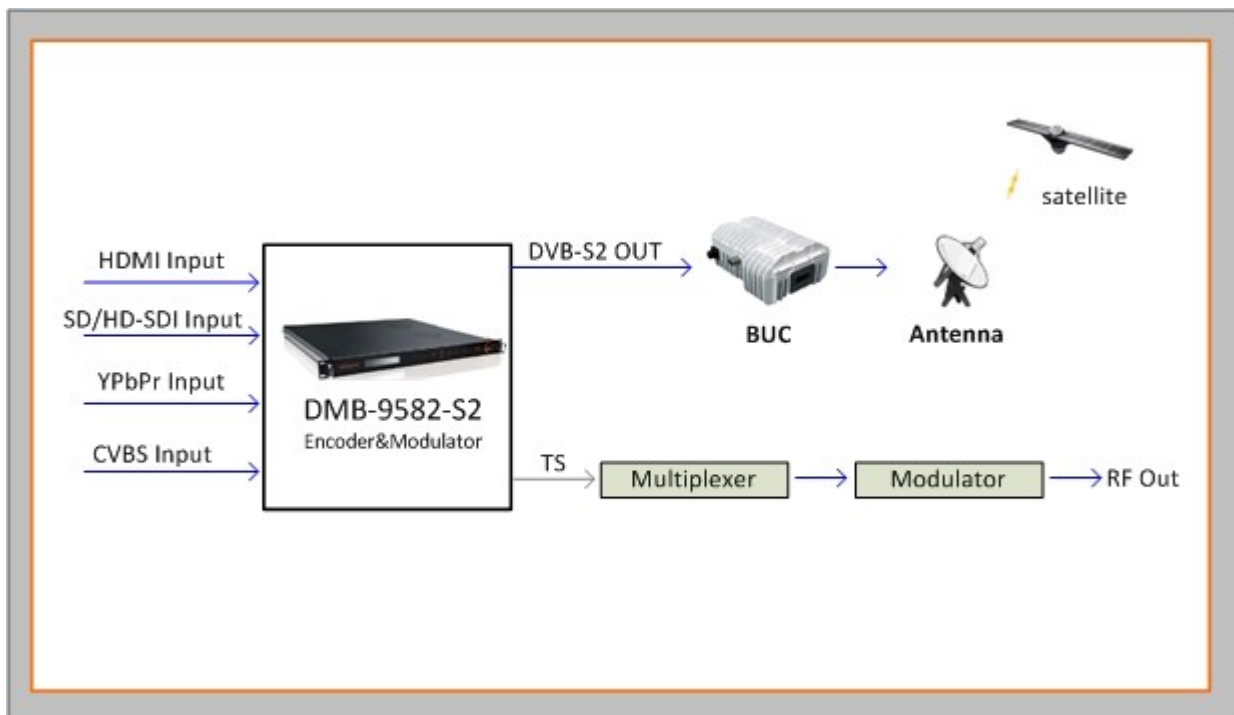
# DMB-9582-S2 DVB-S/S2 MPEG-2/H.264 HD Encoding & Modulator

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## FEATURES

- Comply to DVB-S/S2 modulation standard
- MPEG-2/H.264 SD/HD video compression
- Encoding module support swappable
- Audio encoding: support MPEG-1 Layer 2, LC-AAC, HE-AAC
- Capable of PID, PSI/SI compilation and LCN setting
- Providing BISS scrambling
- Cut-off memory function
- HTTP WEB network management
- Support software upgraded by Ethernet interface, easy maintenance
- Support 10MHz reference clock

## APPLICATIONS



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### SPECIFICATIONS

#### ENCODING MODULES

##### MPEG-2/H.264 HD Encoding Module

- Video input: 1\*SDI (other interfaces need to be customized)
- Video compression standard: MPEG-2/H.264 SD/HD
- Resolution: 1920\*1080\_60P, 1920\*1080\_50P--(only for H.264 HD)  
1920\*1080\_60i, 1920\*1080\_50i, 1280\*720\_60P, 1280\*720\_50P,  
720\*480\_60i, 720\*576\_50i
- Audio input: SDI embedded
- Audio compression: MPEG1 Layer II(default), (LC-AAC, HE-AAC(Optional))
- Audio sampling rate: 48KHz
- Audio bit-rate: 64 ~ 320kbps

#### INPUTS AND OUTPUTS

##### ASI Input

- Channel: 1\*ASI
- Interface: BNC, 75 ohm

- Input bit-rate:  $\leq 100\text{Mb/s}$
- Packet mode: Byte mode
- Packet length: 188/204 Bytes

### ASI Output

- 1\*ASI output
- Standard: compliant with EN 50083-9 ASI
- Output loss:  $>10\text{dB}$
- Interface: BNC, 75 ohm
- TS output: from encoded program or ASI input

### MODULATION MODULE

#### DVB-S/S2 Modulation

- Compliant to DVB-S2 EN302 307, EN300 421 standard
- Constellation: DVB-S---QPSK, DVB-S2---QPSK, 8PSK
- FEC Encoding pattern: DVB-S-RS+convolutional code; DVB-S2-BCH+LDPC
- FEC encoding efficiency: DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8;  
DVB-S2: QPSK-1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10;  
8PSK-3/5, 2/3, 3/4, 5/6, 8/9, 9/10
- Symbol rate: 0.05-20.0 Msps
- Output level: -16-0dBm
- Equipped with RF 24V coupling output

### GENERAL OPTION

#### Management

- Connector: 1\*RJ-45, 10/100 Base-T interface.
- Remote control: HTTP web network management
- Local control: front panel keyboard button and LCD control

#### Physical and Power

- Power Supply: 90~260VAC, 50/60Hz
- Consumption: 25W
- Operational temperature: 0~50°C
- Dimensions: (1RU, 19inch), 420mm(W) × 300(D)mm × 45mm(H)
- Weight: 4kg

### DIAGRAM

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