

Order Guide

DMB-9851E Multi-Channels HDMI Encoder&Modulator
DMB-24E FTA Tuners +HDMI to RF Transmodulator
DMB-90E FTA Multi-Channels Tuners to IP Receiver
DMB-24E IP to 16 DVBT/ISDB-T/ATSC or 32 QAM RF Modulator



OVERVIEW

DMB-8820E Series Multi-Channel H.264 /H.265 HD Encoder features high performance, ultra-low latency and low bit rates for DTV systems, and adopts state-of-the-art compression technology (H.264/AVC-H.265/HEVC) to achieve compression efficiency of the former MPEG-2 standard by over two times, as well as excellent resolution. Also audio encoding supports MPEG-1 Layer2.

The device provides input interfaces of 4/8/12/16/20/24 HDMI, and ASI output and 4 MPTS+256 SPTS TS to IP(UDP/IP) and supports **RTMP/HTTP/RTSP/HLS/SRT** protocol output after loss-less compression processing. The unique empty packets filtering capability enables the spectrum source to be saved for IPTV systems.

DMB-8820E has an external 2*ASI input, which can be multiplexed with local multi-programs to eliminate the needs of multiplexers, and also simplify the network architecture for high reliability solutions. DMB-8820E Encoder is the preferred device for content source encoding of DTV broadcasting system to address the ever-increasing demand for more premium viewing experiences.

FEATURES

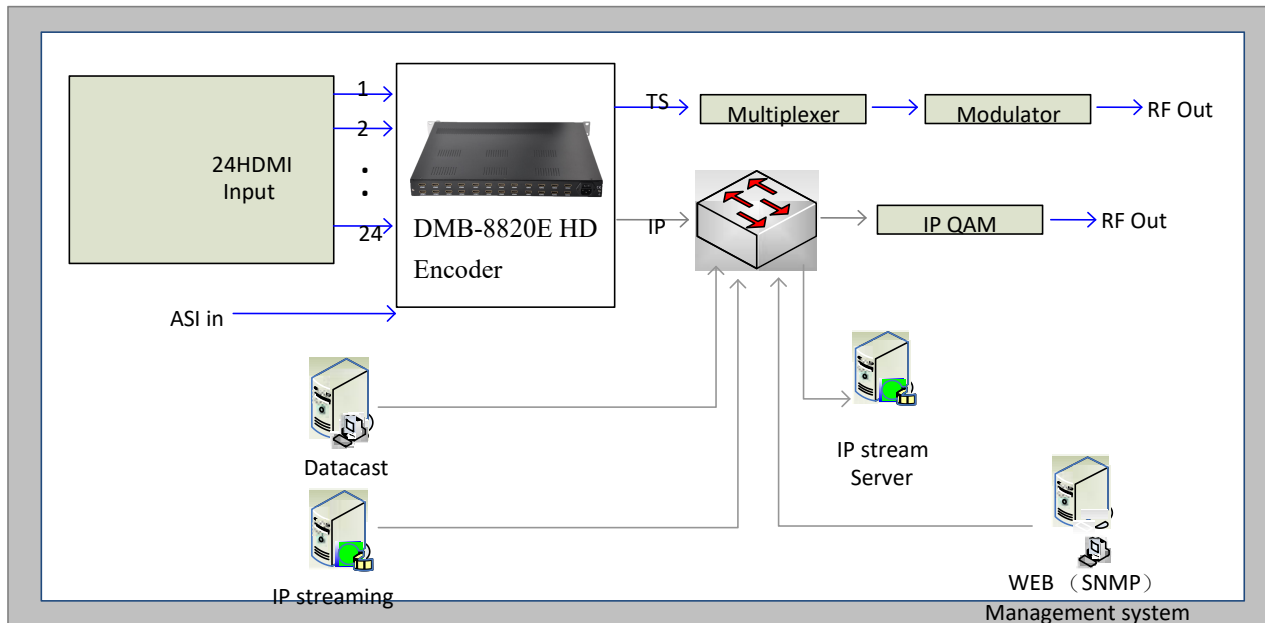
- Advanced video compression: H.264/AVC, (H.265 /HEVC compression option)
- Input interface: Version 1: 4/8/12/16/20/24 Channel HDMI option, 4 HDMI ports per module, up to 6 modules in back panel

Version 2: HDMI+Tuner Mixed Input,Tuner Standard ASTC/

DVB-SS2/ DVB-TT2/ISDB-T Option)

- Supports 3 Gigabit IP input/output
 - DATA1:** IP output over RTMP /HTTP/ RTSP/ HLS/ SRT protocol;
 - DATA2:** IP output over UDP/RTP protocol (Max can be 4 MPTS+256 SPTS)
 - DATA3:** 128 IP address inputs
- Multi-pass look ahead CBR or VBR encoding
- Built-in PCR capability
- Support multiplexing with external 2*ASI in, 2*ASI and IP (UDP/RTP) output
- Equipped with empty packets filtering of IP out
- Providing PSI/SI compilation and NIT, LCN insertion
- Controlled by keyboard on front-panel, LCD display
- Managed via Ethernet interface

APPLICATIONS



- Various of DTV/IPTV/CATV Broadcasting Systems
- Distribute IP source to Streaming Server in IPTV System
- Advertising, monitoring, training and educating
- Enterprise, hotel, campus, hospital, restaurant, public place etc.

SPECIFICATIONS

VIDEO SPECIFICATIONS

- Video compression: H.264/AVC, H.265 /HEVC(Optional)
- Video inputs: Version 1: 4/8/12/16/20/24*HDMI (DMB-8820E)
Version 2: N*HDMI+N*Tuners (DMB-8820E Plus, Max 24 Channels)
- The Input Resolution: 1920x1080@60P, 1920x1080@60i,
1920x1080@50P, 1920x1080@50i,
1280x720@60P, 1280x720@50P
720x576@50i, 720x480@60i
- The Output Resolution(**Max 1080P@60 FPS**): 1920x1080@60P, 1920x1080@25P,
1280x720@30P, 1280x720@25P,
720x576@25P, 720x480@30P(**Support 1080P@60 FPS out**)

- Encoding: MPEG-4 AVC/H.264, H.265 /HEVC(Optional)
- Bit-rate : 1Mbps~13Mbps
- Rate Control : CBR, VBR
- GOP Structure : IPPPP (P Frame adjustment, **without B Frame**)

AUDIO SPECIFICATIONS

- Encoding: MPEG-1 Layer 2, LC-AAC, HE-AAC
- Resolution: 24-bit
- Audio Gain: 0-255
- Bit-rate: 64kbps, 128Kbps, 192kbps, 224kbps, 256kbps, 320kbps, 384kbps
- Sampling rate: 48KHz

ASI INPUTS

- Connector BNC: female, 75Ω
- Packet Length: 188 bytes
- Number of Input Ports: Dual separate ASI ports
- Signal Level: 200-800mVp-p
- Maximum bit-rate per port: ≤100Mbps

ASI OUTPUTS

- DVB-ASI 2 Separate ASI (Select from modulation channels or MPTS channels)
- MPEG-2 TS over DVB-ASI (EN 50083-9)
- 75Ω, BNC, 188 Bytes

IP Streaming OUTPUT

- RJ45 Port 100/1000M GbE Port
- Supports 2 Gigabit IP output
 - **DATA1**: IP output over RTMP/HTTP/RTSP/HLS/SRT protocol;
 - **DATA2**: IP output over UDP/RTP protocol
- Filter Null Packet
- Total Bitrate 1-200Mbps, (Should be More than Encoding bitrate)
- MPEG-2 TS over UDP/RTP, unicast, and multicast streaming
- Configurable packet size: (2-7)x188Bytes

IP input

DATA3: 128 IP address inputs

MULTIPLEXING SPECIFICATIONS

- Maximum PID Remapping 180 input per channel
PID remapping by automatically or manually
- Accurate PCR adjusting
- PSI/SI SDI/PMT/TOT/PAT/BAT/CAT/TDT/NIT Insert

GENERAL OPTIONS

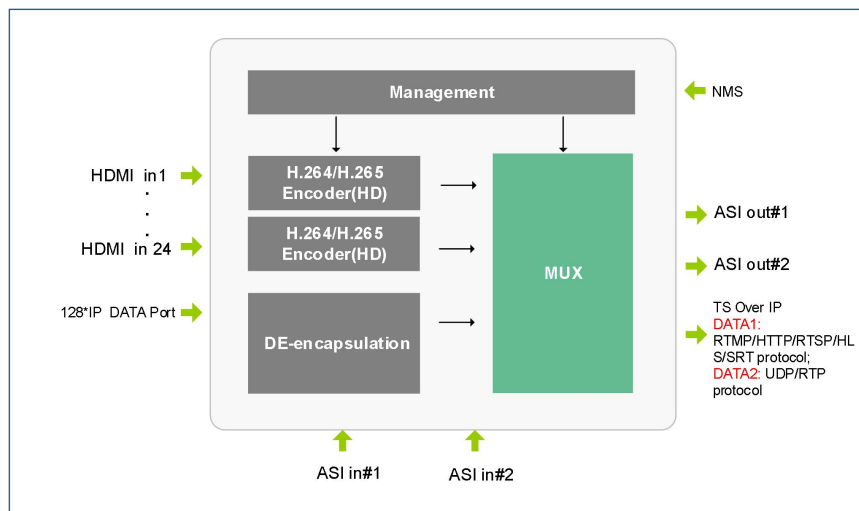
CONTROL AND MONITORING

- Interface: 1*RJ-45, 100/1000M Base-T network interface
- Local operation: keyboard on front panel, LCD display
- Remote control: web-based management

PHYSICAL AND POWER

- Voltage: 100 to 120/200 to 240V AC $\pm 10\%$; 50/60Hz
- Consumption: 60W
- Operating temperature: 0 ~ 45°C
- Storage temperature: -20 ~ 80°C
- Relative humidity: 10%~90%(non-condensing)
- Dimensions: 482mm(W)×380(D)mm×45mm(H)(19inch,1RU)
- Weight: 6 KGS

DIAGRAM



Should you have any questions, please don't hesitate to contact with us.