

MSM623

DIBSYS

8 channels HDMI to RF Modulator



MSM623 H.264 encode modulator up to 8 HD-MI sources

From Satellite Receiver, PC, Blue ray, Local Playout, the latest new device which integrate encoding (MPEG-4 AVC/H.264) and modulation (DVB-C QAM/ DVB-T Cofdm) to convert Video/Audio signals into RF over Single Coax Cable.

This unit is designed especially for high channel density Distribution Video Engineering project, which can support rapid deployment, OSD/Logo Insertion. It used in some of Hotels in the world, it is an ideal solution for environments where displays to an unlimited number of displays over almost any distance, such as Small Digital TV system, Hotel, Stadiums, Campus, Entertainment facilities, Education Markets.

Integrate All in One Multiplexer MPEG-TS out Over 4 adjacent RF Channels as mirrored of 4 MPTS over LAN network. It is also characterized with high integrated, high performance and breakthrough price.

Features

- Distribute 8 channels of HD content over RF (DVB-T/C) to an unlimited number of TVs
- 1 DVB-C/T/ISDB-Tb tuner input for re-mux optional (scrambling function optional for DVB-C RF out version)
- 4 MPTS IP over UDP/RTP as mirror of RF Channels
- 1*ASI output (optional) as the mirror of one of the four carriers
- MPEG-4 AVC/H.264 Video encoding
- MPEG1 Layer II, LC-AAC, HE-AAC audio encoding format and AC3 Pass Through
- Audio gain adjustment supported
- 4 DVB-C or DVB-T carrier out with each carrier channel processing maximum 32 IP from DATA input port
- Selectable the Value of PCR PID same as Video PID
- VBR and CBR mode
- LCN (Logical Channel Number) support
- DVB-C (EN300 429) and ITU-T J.83A/B supported
- PSI/SI editing & inserting
- PID Remapping & Filtering
- Support PCR correct and PCR interval adjusting
- Support LOGO, OSD and QR code insertion for every local channel (Language Supported: 中文, English, العربية, русская, اردو...)
- Easy-to-Use System Management via Web
- Low Cost per channel - Breakthrough Price !

TECHNICAL SPECIFICATIONS

INPUT

8 HD-MI input
128 IP inputs
1*DVB-C/T/ISDB-Tb tuner input (optional) for re-mux (scrambling function optional for DVB-C RF out version)

Video Processing

Input Resolution 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 Resolution 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 for each channel
Rate Control CBR, VBR

Audio Processing

Encoding MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass Through
Sampling rate 48KHz
Resolution 24-bit
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
Audio Gain 0-255 Adjustable

Multiplexing

Maximum PID Remapping 180 input per channel
PID remapping by automatically or manually)
Generate PSI/ SI table automatically

Scrambling (optional for DVB-C RF out version)

Maximum simulcrypt CA 4
Standard ETR289, ETSI 101 197, ETSI 103 197
Connection Local/remote connection

General RF Modulation

Connector F-Type, 75

Ports 2 RF ports
RF frequency 50~960MHz, 1KHz step
Numbers of RF Channel 4*RF DVB-C/ DVB-T out (4 carriers combined output)

DVB-C Mode

QAM Encoding EN300 429/ITU-T J.83A/B
MER ≥40db
Bandwidth 6Mhz (Annex B) or 8Mhz (Annex A)
Symbol Rate 5.0Msps~7.0Msps, 1ksps stepping
QAM Constellations 16/32/64/128/256QAM (Annex A)
64/256QAM (Annex B)
RF output level Gain -25~-1dBm (82~105 dbμV), 0.1dBm

DVB-T Mode

Standard EN300744
FFT mode 2K
Bandwidth 6Mhz, 7Mhz, 8Mhz
Constellation QPSK, 16-QAM, 64-QAM
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 output level Gain -28~ -3dBm (79~97dBμV), 0.1db step

Stream output

4*MPTS IP out Configurable mirroring per QAM
MPEG-TS Over UDP/RTP, 1*1000(GbE1 Port)
RF output (F type interface)
1*ASI out is the mirror out of one of the four carriers (optional)
7x188 Bytes per TS packet
Filter Null Packet

System function

Web Network management
English/Chinese language
Ethernet software upgrade

Environment

Dimension(W×L×H) 482mm×328mm×44mm
Temperature 0~45℃(Operation); -20~80℃ (Storage)
Voltage range AC 110V± 10%, 50/60Hz, AC 220 ±10%,50/60Hz