

Maxcom MX6500

HD-SDI to Clear QAM Inserter



Related Products

MX-6500 HD-SDI Clear Qam Inserter

Applications

*Live SDI Video/Audio
Digital Signage
Broadcast SDI Sources
Cable Receivers
Satellite Receivers*

Sales Support

*Need help integrating HDTV
Local casting for your application?
Our Sales Support staff will be
happy to work with you, providing
expert integration assistance and a
complete systems proposal.*

Tech Support

*Need tech help? Give us a call.
Our tech support staff are experts
in the integration industry. We
research solutions in the proposal
stage, advise on programming
requirements, and resolve
installation issues.
Our job is to make our solutions
work seamlessly with your system,
performing as promised.*

Innovative in design and value, the MX6500 opens the door to cost effective distribution of digital signage and HD subscriber sources using existing broadband coax cabling in sports, retail and entertainment facilities, corporate offices, colleges, schools and worship centers.

Create your own on-site HDTV broadband distribution system using HDSDI/SD-HDI sources, as well as analog Component and NTSC video

Distribute digital signage, live video, and broadcast-quality sources as HD digital cable channels over existing broadband wiring

Display EAS emergency AV programming

View HD sources at any destination using HDTV displays or tuners

Features

Accepts digital HD-SDI (1080i/720p) and SD-SDI (480i)

Inputs analog Component, S-Video and Composite video

Employs pro-grade HD encoding that minimizes artifacts for motion video and signage tickers

Merges audio with video from SDI ,analog stereo, digital optical and coax inputs

Switches between SDI, Component, and video inputs

Creates a high-definition 720p/1080i/480i MPEG-2 stream for broadcast, in addition to 480p for Component

Delivers a fully agile clear QAM 64/256 digital cable channel 2-135

Amplifies for distribution over an on-site broadband cable system with adjustable output level to 29 dBmV, compatible with all cable format broadband systems

Sets up with front-panel buttons and easy to use menus, including inputs, encoding, channel, and RF options.

Responds to GPI inputs to switch to EAS composite video and audio

Integrates with RS-232 control and feedback with simple ASCII commands

Saves power and rack space using efficient design, fan-free cooling, and compact enclosure

Includes compact switching power supply

Mounts in optional 1RU single (RK1) or dual (RK2) 19 rack kits

Meets RoHS safety and California energy standards

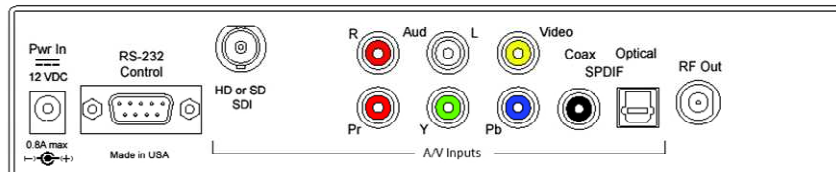
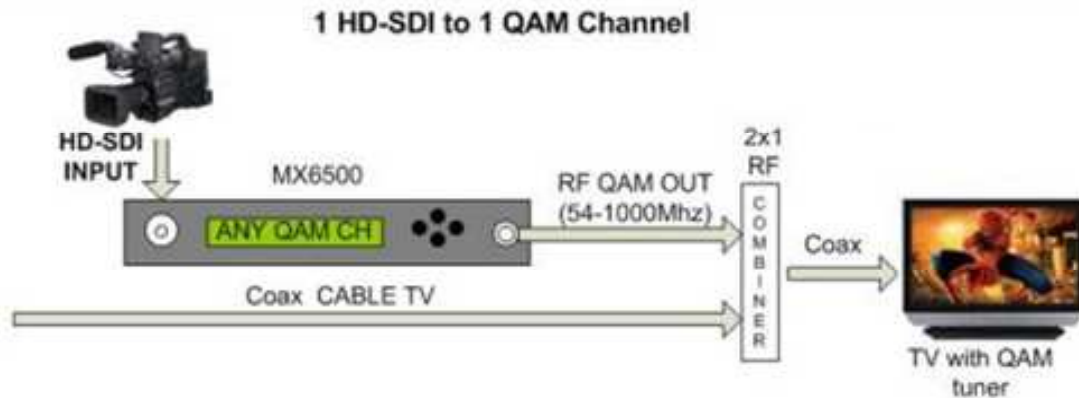
Integration

Connect SDI, Component, S-Video or Video source

Connect audio to digital optical, coax, or stereo audio inputs

Select inputs, channel, resolution, and RF output parameters from front panel menus





Feature

General

Integrated HD-SDI/SD-SDI encoder/modulator

Physical

8.5 [216mm] wide x 1.73 [62mm] height (1RU) x 6.0 [153mm] deep 1.5 lbs [0.68kg]

Rack mounting for one or two units side-by-side optional (RK1, RK2)

Encoding

MPEG2 Profile : MP@HL for HD, MP@ML for SD 1080i, 720p, 480p, and 480i resolution

Video Encoding bitrate 11, 13, 15, 18 or 25 Mbps ,MPEG1, Layer 2 audio , or (Dolby AC-3 Optional)

Modulation

Switchable 64/256 QAM, J83 Annex B, Interleaving Modes (128,1) MER 38 dB typical

Front Panel :

Power button ,Select and directional buttons for menu setup , Menu LCD, 2 lines of 20 blue characters each

Back Panel :

Power - 2.1mm coaxial jack (inside center conductor positive) 0.8 A maximum, 11.5 to 13.5 VDC, 12 VDC typical

RS-232 Control , EAS Control

DB-9 male, RS-232 data link to control system 300 to 19,200 baud (9600 default), 8 data bits, no parity, 1 stop bit

2 GPI Pins in DB-9, selects composite/stereo inputs

SDI Input

BNC Female , SD-SDI rate 270Mb/s or HD-SDI rate 1.485Gb/s

Coax cable auto-equalizer for SD up to 460m, HD up to 230m (RG6)

Resolutions 1080i at 29.97Hz, 720p at 59.94Hz, or SD 480i at 29.97Hz

Video Format YCbCr 4:2:2

Can accept SDI embedded Stereo 48KHz digital audio

Analog Video

Component: RCA Y, Pb, Pr (1080i/720p/480p/480i), 59.94/29.97 Hz

S-Video: Y(Composite), C (Blue Pb) 480i, 29.97 Hz

Composite Video: RCA female (480i), 29.97 Hz

Audio Inputs

Digital SPDIF: Coax and Toslink optical output, PCM 48K sample rate

Analog L and R: 2 stereo RCA female jacks

Inputs assignable to video inputs

RF

F, female, 75 ohm impedance

Agile, channels 2-135 (48-860 MHz), standard, HRC, or IRC spacing

6 MHz bandwidth fits any open channel without interference to adjacent channels

1 KHz resolution, +/- 30 ppm accuracy, +/- 35 ppm stability

29 dB typical output power, attenuated in 5 steps, approx 4 dB

Includes

Compact -switching power supply, 1A 12 VDC,

Compliance

FCC Class B, ROHS, meets California standards



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