

SDQ6

6-Channel SD Encoder QAM/Modulator



SDQ6
(front view)

ATX's SDQ6 is a high-performance MPEG-2 video encoder that encodes six composite video & Dolby® stereo inputs into multiplexed QAM & ASI outputs. Occupying a single rack space, the compact unit offers PSIP virtual channel mapping of each channel, in addition to EAS & closed captioning. With up to 40 dB of RF output & remote access capabilities, the SDQ6's extensive feature set makes the unit the most cost-effective encoder in the marketplace. The SD encoder is ideal for commercial residential properties, academic & medical facilities, local area network applications for both CATV & broadcast, as well as the hospitality industry.



SDQ6 (rear view)

Features

- Encodes up to six composite video & stereo audio inputs into one QAM
- QAM modes supported: Annex B, 64 & 256
- Codec: MPEG-2 MP@ML video compression
- Frequency range: 54 MHz to 864 MHz
- Maximum output level: 40 dBmV
- 1RU unit
- Equipped with EAS & closed caption
- Remote control & monitoring via an easy-to-use web browser
- PSIP tables allow users to configure virtual channel maps for each channel

Specifications

INPUT INTERFACE	
VIDEO IN	1 Vp-p, 75 Ω
VIDEO CONNECTOR	6x RCA
AUDIO INPUT	2 Vrms Max.
AUDIO CONNECTOR	6x RCA Left & Right
EAS VIDEO & AUDIO	3 RCA (Video, Audio L/R), Terminal Strip
ENCODER PROFILE	
VIDEO OUTPUT FORMAT	MPEG-2 SD MP@ML (ISO13818-2)
VIDEO CHROMA	4:2:0
VIDEO RESOLUTION NTSC	720 x 480i
VIDEO RESOLUTION PAL	720 x 576i
VIDEO ENCODING DATA RATES	2.5 Mbps to 15 Mbps
AUDIO OUTPUT FORMAT	Dolby AC-3 / MPEG-1 Layer II
AUDIO SAMPLING RATE	32 / 44.1 / 48 kHz
MODULATION	
QAM MODULATION MODES	64 & 256

MODULATION (cont'd)	
SYMBOL RATES	5.057 Msps 64 QAM, 5.3605 Msps 256 QAM
FEC ENCODER	ANNEX B
MER	40 dB
I/Q PHASE ERROR	1°
I/Q AMPLITUDE IMBALANCE	1%
RF OUTPUT	
FREQUENCY RANGE	54 MHz to 864 MHz
CHANNEL RANGE	2 to 135
FREQUENCY STABILITY	± 5 kHz
OUTPUT LEVEL	40 dB
OUTPUT LEVEL RANGE	15 dB
PHASE NOISE @ 10 kHz OFFSET	-100 dBc /Hz
SPURIOUS LEVEL	-60 dB
ASI OUTPUT	
DATA RATE	213 Mbps

Specifications (cont'd)

USER INTERFACE	
LCD	2 Lines x 16 Characters
NAVIGATION	5 Push Buttons
GENERAL	
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)
AC POWER, SWITCHABLE	100 VAC to 240 VAC, 50/60 Hz
MECHANICAL	
DIMENSIONS	1.75"H x 19.0"W x 17.0"D (4.45H x 48.26W x 43.2D cm)

Ordering Information

Part Number	Description
SDQ6	6-Channel SD Encoder QAM/Modulator

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