

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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ATX Networks

Tel: 289.204.7800 | Toll-Free: 866.YOUR.ATX | support@atx.com