



SDQ6 6 Channel SD Encoder QAM/Modulator

DESCRIPTION

Pico Digital's SDQ6 is a high-performance MPEG2 video encoder that allows the encoding of six composite video and Dolby stereo inputs into a multiplexed QAM and ASI outputs. The single rack spaced SD encoder offers PSIP virtual channel mapping of each channel in addition to EAS and closed captioning. With up to 40 dB of RF output and the ability for remotely controlled access, all these standard features make the SDQ6 the most cost effective encoder in the marketplace. Ideal uses for the SD encoder include commercial residential properties, academic and medical facilities, local area network applications for both CATV and broadcast as well as the hospitality industry.

FEATURES

- Will encode up to six composite video and stereo audio inputs into one QAM
- QAM modes supported: Annex B, 64, and 256
- Codec: MPEG 2 MP@ML video compression
- Frequency range 54 to 864 MHz
- Maximum output level 40 dBmV
- 1 RU unit
- EAS and Closed Caption equipped
- Remote control via web browser
- PSIP tables allow user to configure virtual channel map for each channel



(Back Panel)

SPECIFICATIONS

INPUT INTERFACE

| | |
|---------------------|--|
| Video In | 1 Vvp-p, 75Ω |
| Connector | 6 x RCA |
| Audio Input | 2 Vrms max. |
| Connector | 6 X RCA left and right |
| EAS Video and 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 480 |
| Video Resolution PAL | 720 x 576 |
| Video Encoding Data Rates | 2.5 to 15 Mbps |
| Audio Output Format | Dolby AC3 / MPEG 1 Layer2 |
| Audio Sampling Rate | 32 /44.1 /48 KHz |

MODULATION

| | |
|----------------------|---|
| QAM Modulation Modes | 64 and 256 |
| Symbol Rates | 5.057 Msps 64 QAM, 5.3605 Msps 254 QAM |
| FEC Encoder | ANNEX B |
| MER | 40 dB |
| I/Q Phase Error | 1° |

| | |
|-------------------------|----|
| I/Q Amplitude Imbalance | 1% |
|-------------------------|----|

RF OUTPUT

| | |
|-----------------------------|---------------|
| Frequency Range | 54 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 |
|-----------|----------|

USER INTERFACE

| | |
|------------|-------------------------|
| LCD | 2 Lines x 16 characters |
| Navigation | 5 push buttons |

GENERAL

| | |
|-----------------------------|-----------------------------|
| Operating Temperature Range | 0 to 50°C |
| AC Power , Switchable | 110 to 240 VAC, 50 to 60 Hz |

MECHANICAL

| | |
|------------|-----------------------------|
| Dimensions | 19"(L) x 17"(D) x 1.75" (H) |
|------------|-----------------------------|

ORDERING INFORMATION

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