# EN-80/EN-81
## DSNG/Contribution Encoder/Modulator

Designed specically for Tier 1 Satellite, ASI/Fiber and IP Contribution and DSNG applications, Adtec's fifth generation encoder enters the market with an impressive list of standard features and a wide range of options; allowing you minimal initial investment and an upgrade path for future applications. Offering High and Standard Definition, MPEG 2 and MPEG 4 AVC encoding, the EN-80 series continues to support past, present and future requirements.

With temporal and spatial filtering for Standard Definition and advanced motion compensated temporal filtering for High Denition, the EN-80 Series exhibits the highest-quality video picture. Audio encoding highlights include up to 8 pairs of audio encoding and advanced audio mapping capabilities.

Designed for mobility and durability, the EN Series sports a new front panel design with an expanded menu system and additional key pad options, making conguration and statusing quick and easy. Additional methods of control and conguration are available via our on-board web-based application and SNMP.

### Benefits

- **Comprehensive Video/Audio Options:** Encoding via HD/SD-SDI with embedded audio and analog composite video is standard on the EN-80 Series with a wide range of encoding profiles. Audio encoding options for the EN-80 includes 4 encodes. Configuration can allow mixing and matching of (4) MPEG1 Layer 2 encodes, (2) Optional Dolby AC3 encodes and (2) Passthru modes for PCM, Dolby E/2.0/5.1 and Linear Acoustics. Audio encoding options for the EN-81 extends the audio encode options to 8 encodes. Configuration can allow mixing and matching of (8) MPEG1 Layer 2 encodes and (2) Passthrough of PCM, Dolby E/2.0/5.1 and Linear Acoustics.

- **Low Latency:** The EN-80 offers a flexible latency configuration with various applications in mind. Available are settings ideal for Distribution Applications (1 sec.), Contribution Applications (400ms to 250ms) and even those interested in going very low (120ms).

- **Multiple Concurrent IP streams w/ FEC:** With Four (4) unique UDP or RTP encapsulated routes, the EN-80 series offers Forward Error Correction (FEC) standard all while concurrently transmitting ASI and optional DVBS/S2.

- **Advanced VBI support:** Adtec provides support for Waveform, Closed Caption (608, 708, DVS-157), Wide Screen Signaling (WSS), Teletext, AMOL and VITC. Additional support for Closed Caption 608 to 708 up-conversion and Closed Caption, WSS and Waveform caption bridging. On-board VBI analyzer provides up to the minute data on any inbound VBI data.

- **Video/Audio Signal Generation:** Whether you want to enable Video and Audio signal on the fly or rely on our user defined fail mode, we have many options. The EN-80 Series has the ability to generate SMPTE Bars, solid color signal as well as the ability to post DVB Service Name and Service Provide OSD to the screen. Advanced Tone Generation allows frequency, phase and mute per channel or pair as a standard feature.

- **Robust/Light Weight design:** Weighing in at a slight 9 lbs. (4.08 kg), the EN was designed for mobility and reliability. Standard redundant AC power supplies, rugged assembly, hardened mechanical assemblies, locking screws and interconnections provides a platform that not only is economical to ship, but economical to operate!

- **Monitoring:** SNMP monitoring, front panel LED and LCD visual alarms, web-based statusing and event logging are standard.

### Options

**Hardware**

**EN8X-01-MOD-LB:** Adds Newtec OEM L-Band Modulator. Supports DVB-S/S2, QPSK. User definable between 950-1750 MHz Additional Modulation options available for 16APSK and 32APSK modulation.

**EN8X-01-MOD-IF:** Adds Newtec OEM IF Modulator. Supports DVB-S/S2, QPSK. User definable between 50-180 MHz. Additional Modulation options available for 16APSK and 32APSK modulation.

**Software (All Field Upgradeable)**

**EN8X-M2-KEY:** Adds High and Standard Definition MPEG 2 (4:2:0 & 4:2:2) Encode.

**EN8X-M4-CHR-420E-KEY:** Adds High and Standard Definition MPEG 4 (4:2:0) Encode.

**EN8X-M4-CHR-422E-KEY:** Adds High and Standard Definition MPEG 4 (4:2:2) Encode. Requires purchase of EN80-M4-CHR-420E-KEY.

**EN80-DOLBY-KEY:** Adds dual (two-pairs) stereo Dolby Digital AC3 encode. Software Key.

**EN81-AUD-EXP-KEY:** Adds four pairs (8 channels) of MPEG 1 L2 encoding. Software Key.

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