



CODICO® E-1000 Broadcast, MPEG-2 Encoder

General

The E-1000 is a professional high quality Encoder that applies state-of-the-art video quality, efficient bit rate and buffering control while delivering flexible encoding capabilities and high quality pictures at any given bit rate.

Applications

- Fixed and Mobile Contribution / Distribution
- Cable TV head-ends
- Digital Turnaround (DTA)
- Video Distribution over Telco infrastructure
- Video-on-Demand
- Direct Broadcast Satellite

Features and Options

- BISS mode 1 and BISS-E (DSNG-CA) support (optional)
- Built-in DS-3, G.703 interfaces (optional)
- Teletext and VBI Support, Analog and over SDI (optional)
- SNMP agent (optional)
- Encoder cascading (optional)
- Up to 4 stereo channels
- -48v power supply
- Low power consumption
- Dolby Digital (AC-3) 2.0 Encoding
- Dolby Digital (AC-3) Pass-Through
- Linear PCM and Dolby-E Pass-Through

1 RU

4:2:2 / 4:2:0 Encoding profiles

MPEG-2, DVB/ATSC compliance

High/Low Speed Data inputs

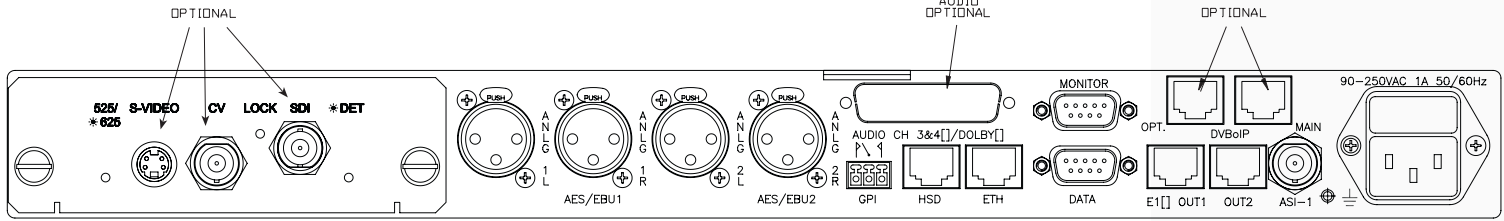
Proven interoperability

Variety of network interfaces

IP output

Dolby Digital (AC-3) 2.0
Encoding

Cue tone insertion (SCTE-35)



Inputs	Video <ul style="list-style-type: none"> • Video formats: NTSC/PAL • Digital Input: SDI (optional) • Analog Inputs: Composite, S-Video • A/D resolution: 10-bit Video resolution <ul style="list-style-type: none"> • Vertical: PAL-576, 288; NTSC- 480, 240 • Horizontal: 720, 704, 640, 528, 544, 480, 368, 352 • Aspect Ratio: 16:9, 4:3 VBI processing <ul style="list-style-type: none"> • Teletext (WST) • CC, WSS, VITC, VPS • SMC 	Audio <ul style="list-style-type: none"> • Up to 2 Stereo channels (4 Mono): Analog, AES/EBU, Embedded • Option for 4 stereo (8 Mono) • Audio mode: Stereo, joint stereo, single channel, dual channel • Encoding Rate: up to 384 Kbps (640 kbps for Dolby) • Sampling Rates: 32K, 44.1K, 48K • Dolby Digital (AC-3) Pass-Through (optional) • Linear PCM and Dolby-E Pass-Through (optional)
Pre-Processing	<ul style="list-style-type: none"> • Analog TBC, Frame Synchronizer • Automatic frame re-sizing 	
Processing	Video encoding formats <ul style="list-style-type: none"> • MPEG-2 4:2:0MP@ML • MPEG-2 4:2:2MP@ML (optional) • Variable GOP : I, P and B Frames processing • Low-delay modes (4:2:0, 4:2:2) <ul style="list-style-type: none"> • Cue Tone detection - comply with SCTE-35 (optional) • Cascading - up to 16 channel (optional) 	<ul style="list-style-type: none"> • VBR/CBR operation mode • Built-in multiplexer for encoder cascading • ATSC - static PSIP tables Audio encoding format <ul style="list-style-type: none"> • MPEG I layer II, CD Quality • Dolby Digital (AC-3) 2.0 Encoding (optional)
Output	<ul style="list-style-type: none"> • DVB interface: 2 x ASI (optional 3 ASI) • Electrical interface: 2 x RS-422 • Output Rate: 0.25-52Mbps • Optical ASI (EN50083-9) (optional) • Clock Source: Internal/External IP output (optional) <ul style="list-style-type: none"> • 10/100 Base T • UDP/RTP 	Telecom G.703 (optional) <ul style="list-style-type: none"> • Unframed PDH Data rates: E1, E2 or E3 • FEC (optional): DVB-C FEC DVB-PDH (optional) <ul style="list-style-type: none"> • Interface: ATM; AAL-1 • Data rates: DS3, E3 (leased line) DVB scrambling (optional) <ul style="list-style-type: none"> • BISS mode 1 • BISS-E
Control and Monitoring	Local <ul style="list-style-type: none"> • 6 button keys and 24 character LCD • 10 Pre-programmed Setups • Configurable Hot alarm relay (GPI) Remote <ul style="list-style-type: none"> • Ethernet (TCP/IP) • SNMP Agent 	<ul style="list-style-type: none"> • NMS-4000 • RS-232 SW upgrade <ul style="list-style-type: none"> • Compact Flash Disk • RS-232 • Ethernet (TCP/IP) • NMS 4000
Physical and Power	Dimensions <ul style="list-style-type: none"> • 1RU (19" rack) • 4.4 x 48.3 x 53cm • 1.75" x 19" x 21" • Weight: 4.5Kg / 9Lbs 	
Environment	Temperature <ul style="list-style-type: none"> • Operating 0-50 °C • Storage : -40-70 °C 	Humidity: 85% non-condensing Vibration and shock: in accordance with MIL-STD-810D
Compliance	<ul style="list-style-type: none"> • CE marked in accordance with EN 50082-1and EN 55022, Class B, FCC 	Safety <ul style="list-style-type: none"> • In accordance with EN 60950

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