



The EN5240 is a compact cost effective multi-channel encoder solution for cable head-ends.



Business Benefits

- Cost effective solution.
- Space saving 1RU size.
- Flexibility to accept either analog or digital inputs.
- Scalable. Small systems can be controlled from a web browser and can support remultiplexing. Large systems with redundancy can be implemented with nCompass Control.
- The EN5240 supports SCTE 35 for digital program insertion controlled by contact closure or DVS 525.

Application

Ideal for applications where rack space is at a premium, the EN5240 combines four MPEG-2 encoders in a compact 1RU product.

Base units

EN5240 Encoder

The EN5240 has 4 MPEG-s encoders with support for 1 or 2 stereo pairs per channel. The EN5240 supports either an ASI or IP streaming output.

Each encoder features:

- Analog or Digital input versions
- Analog version has VCR Mode for tolerance of consumer VHS sources
- MCTF noise reduction
- Support for SCTE 20 and SCTE 21 closed captions
- Two stereo pairs of Dolby AC-3

Software options

SCTE 35 Digital Program Insertion.

Enables carriage of DPI messages as per SCTE 35.

Controlled by GPI contact closure (Analog input version only) or by DVS 525.

Hardware options

Dual ASI Output

The dual ASI output module outputs an MPTS.

Fast Ethernet IP Output

The IP output module output can stream combinations of MPTS and SPTS.

Each encoder can feed either an SPTS or MPTS.



Sample configuration:



INPUTS	<p>Analog input version</p> <p>Video</p> <ul style="list-style-type: none"> 4 x Analog composite video (PAL/NTSC) 10bit sampling VCR source compatible mode SCTE 35 Digital Program Insertion controlled by GPI Contact Closure or DVS 525 <p>Audio</p> <ul style="list-style-type: none"> 4 x 2 stereo pairs inputs via analogue Analog audio balanced 600Ω/20kΩ Input level adjustable from 0 to +20dBu in 0.5dBu steps relative to +4dBu reference <p>SDI Input version</p> <p>Video</p> <ul style="list-style-type: none"> 4 x SDI serial digital video 625 and 525 line standard supported with EDH error detection and health monitoring SCTE 35 Digital Program Insertion controlled by DVS 525 <p>Audio</p> <ul style="list-style-type: none"> Embedded in SDI 	<p>AUDIO ENCODER</p> <p>2 x stereo audio channel processing per video channel</p> <p>MPEG Layer II audio encoding standard</p> <ul style="list-style-type: none"> Encoding rates from 32kbit/s to 384kbit/s <p>Dolby Digital® (AC-3)</p> <ul style="list-style-type: none"> Encoding rates from 56kbit/s to 448kbit/s
OUTPUTS	<ul style="list-style-type: none"> Dual MPTS ASI – or Fast Ethernet, streaming over IP 	<p>CONTROL</p> <ul style="list-style-type: none"> Configuration of IP address via front panel. Full control & monitoring via web browser Redundant architectures controlled by TANDBERG nCompass Control
ADVANCED PRE-PROCESSING	<ul style="list-style-type: none"> MCTF noise reduction Variable video bandwidth Scene cut detection 	<p>PHYSICAL AND POWER</p> <p>Dimensions (w x d x h)</p> <ul style="list-style-type: none"> 442.5 x 545 x 44.5mm (17.5" x 20.7" x 1RU) <p>Approx Weight</p> <ul style="list-style-type: none"> 7.5kg <p>Power Input</p> <ul style="list-style-type: none"> 100 – 120 Vac or 220 – 240 Vac wide ranging, or -48Vdc <p>Consumption</p> <ul style="list-style-type: none"> 10W per channel
VIDEO ENCODER	<p>MPEG-2 4:2:0 MP@ML</p> <ul style="list-style-type: none"> Video Processing Look-Ahead multi-pass processing 1.5 to 10 Mbit/s Insertion of SCTE 35 messages (Analog input version only) Vertical Resolutions 480, 240 (NTSC) 576, 288 (PAL) Horizontal Resolutions 720, 704, 640, 544, 528, 480, 352 	<p>ENVIRONMENTAL CONDITIONS</p> <p>Operating Temperature</p> <ul style="list-style-type: none"> 0°C to 50°C (32°F to 122°F) <p>Operating Humidity</p> <ul style="list-style-type: none"> <95% non-condensing
VBI	<ul style="list-style-type: none"> Closed Captioning & V-Chip as per SCTE 20 and SCTE 21. 	<p>COMPLIANCE</p> <p>CE marked in accordance with EU Low Voltage and EMC Directives</p> <p>EMC Compliance</p> <p>EN55022, EN55024, AS/NZS3548, EN61000-3-2 and FCC CFR47 Part 15B Class A</p> <p>Safety Compliance</p> <p>EN60950, IEC60950</p>

TANDBERG Television maintains a policy of product improvement and reserves the right to modify the specifications without prior notice. ©TANDBERG Television Ltd 2005. All rights reserved.

Europe, Middle East and Africa
Americas

+44 (0) 2380 484666
+1 678 812 6300

Asia
Australasia

+852 2899 7000
+61 2 8923 0400

www.tandbergtv.com