

# ▶ VL4125B Base band to ASI Encoder

## DESCRIPTION

The VL4125B is an Base band to ASI encoder for use in digital transmission systems. Designed to deliver high quality MPEG-2 video while using limited bandwidth to encode baseband video and audio feeds into ASI output streams. User selectable settings of constant bit rate or variable bit rate mode offers a clean and sharp picture.

Now available with SD/SDI input as the VL4125B-MR. This offers a SMPTE 259 input with embedded AES audio.

Built for easy installation into digital television systems as well as ENG, satellite, surveillance and security applications.

The unit allows users configure the selectable bit rate, PID numbers and other features with simple front panel control to integrate within your existing facility.

With the ASI input you can cascade multiple VL4125B encoders on to a single ASI output stream.

## ▶ BENEFITS

Encode rates from 1.5 to 15 Mbps

Supports 4:2:0 format

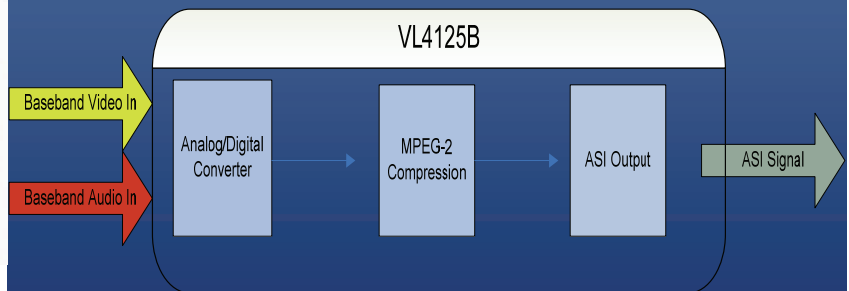
Now available with Serial Digital Inputs

## ▶ FEATURES

MPEG-2 Compliant

Alterable PID values

Designed for high quality with lower cost



**Radiant  
Communications  
Corporation**

Phone: 908 757 7444 or 800 969 3427  
Fax: 908 757 8666  
E-mail: sales@rccfiber.com  
www.rccfiber.com

P.O. Box 867  
South Plainfield  
NJ 07080  
USA

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# ▶ VL4125B Baseband to ASI Encoder

The VL4125B encodes base band video into MPEG-2 format and multiplexes it with audio encoded with either MPEG-1 layer 1, Layer 2, consumer grade AC-3 audio. The encoded signals are then output to an ASI transport stream for reinsertion into the local groomer at the system to provide channels for the new digital lineup. There are numerous adjustments and options that are user controllable via the soft touch front control panel. Designed for simple and easy installation into an existing facility.

## SPECIFICATIONS

### Video

Baseband Video	Up to 2 Videos depending on model
SDI:	SMPTE 259 with Embedded AES Audio
Connectors	BNC or S-Video
Video Level	1 volt peak to peak nominal
AGC Range	-6 db minimum to +3db maximum
Input Impedance	75 Ohm
Aspect Ratio:	4:3
VBI formats:	Closed Captions

### Audio

	2 Audio per video channel
Connectors	Terminal Strip
Input Signal Level	1V RMS maximum
Frequency response	20 Hz - 20 kHz @48 kHz sample
Input impedance	25 K Ohm minimum

### Encoding

Video Compression	MPEG-2
Video Bit Rate	1.5 –15 Mbps Front panel controlled
Resolution	D1, 3/4 D1, 2/3 D1, 1/2 D1
Audio Compression	MPEG1-L1, MPEG2-L2, Consumer Grade AC3
Audio Sample Rate	32, 44.1, 48 kHz Front panel controlled
Audio Bit Rate	128 –448 kbps Front panel controlled

### Transport Stream:

Input:	ASI
Output:	ASI
Signals:	1 ASI stream per input 2 ~15 Mbps
Bit rate:	270 Mbps per ASI
Impedance:	75 ohms
Connector:	BNC

### Environmental

Operating Temperature:	0° to 50° C (32° to 122° F)
Storage Temperature:	-40° to 70° C (-40° to 158° F)
Relative Humidity:	+50° C (122° F) 5 to 95% non-condensing
Size:	17.0" W x 12.0" D x 1.75" H single channel unit
Weight:	5.5 pounds

### Environmental

AC Power:	17.6 W @ 90 to 240V AC
Voltage range:	100 to 120/ 200 to 240 V AC ±10%
Line Frequency:	47 to 63 Hz



## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
VL4125B-X	MPEG-2 ASI Encoder
VL4125B-MR	MPEG-2 ASI Encoder with Serial Digital Input

### Note:

- Specify X—Input Channels
- Due to product enhancements, specifications are subject to change without notice

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P.O. Box 867  
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 NJ 07080  
 USA

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