

PEG PLUS

MPEG-2 or H.264 Digital Video PEG Channel Encoder



The **PEG PLUS** is a stand-alone MPEG-2 or H.264 digital video PEG channel encoder with a single SD/HD-SDI, or composite video input, and an IP-encapsulation output via a single SFP Ethernet port. A separate RJ45 10/100 Ethernet port is provided for control and monitoring capability.

The **PEG PLUS** features selectable SDI PCM-embedded audio, or analog left and right audio. Audio compression can be either Dolby® Digital, MPEG1-Layer 2 stereo, or AAC stereo.



An optional Zixi output protocol is also available to provide the ability to stream content in H.264 format over an unmanaged network, including the public internet. The Zixi UDP-based video optimized protocol provides professional broadcasters, sports networks, and service providers a mechanism to adapt to the public internet using standard IP networks as a way to ingest and transport broadcast quality video.

An optional rack mount panel is available for up to (2) PEG PLUS encoders.

FEATURES

- MPEG-2 or H.264 video encoding
- Selectable SD/HD-SDI or Composite video input
- Encodes two HD or SD streams of the same content in either MPEG-2 or MPEG-4/H.264 formats
- Supports video resolutions of 480i, 720p, or 1080i
- Dolby® Digital, AAC, or MPEG1-Layer 2 stereo audio encoding from PCM-embedded audio source
- IP output via SFP port (*SFP sold separately*)
- Unicast and multicast capable
- Separate Management port and streaming port
- Built-in watchdog timer with system reboot capability
- Field-upgradable firmware
- Configuration and shutdown control via HTTP server UI and programmable API
- Supports VLAN & QoS for streaming or traffic mgmt.
- SNMP V2
- User-defined PID configuration
- Supports ATSC PSIP tables
- DVB Service information table generation (NIT+SDT)
- Compositing support to add program PNG logo file

Model	Item #	Description
PEG PLUS	1002613B	MPEG-2 or H.264 HD PEG Encoder with HD-SDI or Composite Input and IP Output
	1002613B Z	MPEG-2 or H.264 HD PEG Encoder with Zixi Option
PEG-RP-2	1002644B	Rack Mount Panel for (2) PEG PLUS units

PEG-RP-2

TECHNICAL DATA and SPECIFICATIONS

PEG PLUS MPEG-2 or H.264 PEG Encoder with HD-SDI or Composite Input, IP Output **Item # 1002613B**

INTERFACE		AUDIO OPTIONS	
VIDEO INPUTS:	SD/HD-SDI BNC Type Input Connection Composite Video RCA Input Connector Closed Caption Support	ENCODER FORMATS:	Dolby® Digital, AAC, or MPEG1-Layer 2
AUDIO INPUTS:	SD/HD-SDI with PCM Embedded Audio Analog Audio (L, R) 2xRCA Input Connectors Supports Audio Gain Adjustment	OUTPUT BIT RATES:	128, 192, 224, or 384 Kbps
		<i>Manufactured under license from Dolby Laboratories</i>	
VIDEO OPTIONS		OUTPUT	
INPUT VIDEO MODES:	480i (640x480/720x480 @ 30 FPS) 720p (1280x720 @ 60 FPS) 1080i (1920x1080 @ 30, 59.94 & 60 FPS) AUTO-SCAN for Input Resolution	VIDEO OUTPUT:	SFP Port IP SPTS (SFP sold separately)
VIDEO FORMATS:	MPEG-2 or H.264	PACKET FORMAT:	UDP SPTS (two HD or SD streams)
VIDEO ADJUSTMENTS:	BRIGHTNESS CONTRAST HUE SATURATION	ZIXI:	UDP Transport Stream Protocol
H.264 PROFILE SUPPORT:	BASELINE MAIN HIGH	PHYSICAL SPECIFICATIONS	
		TEMPERATURE RATING:	0 - 50° C Ambient
		FORM FACTOR:	Desktop Modulator
		DIMENSIONS:	Approximately 7.6" D X 2.0" H X 8.7" W
		WEIGHT:	1.5 lbs
		POWER REQUIREMENTS:	100-120 VAC/60 Hz

Specifications, price, and availability are subject to change without notice or obligation.

Available SFPs (Sold Separately)



> ONE FIBER APPLICATIONS

STOCK #	MODEL
1002680	SFP-SMF-1310nm-TX/1550nm-RX 10km
1002681	SFP-SMF-1550nm-TX/1310nm-RX 10km
1002671	SFP-SMF-1550nm-TX/1310nm-RX 40km
1002672	SFP-SMF-1310nm-TX/1550nm-RX 40km
1002682	SFP-SMF-1490nm-TX/1550nm-RX 80km
1002683	SFP-SMF-1550nm-TX/1490nm-RX 80km

>> TWO FIBER APPLICATIONS

STOCK#	MODEL	DESCRIPTION
1002621	SFP-MM-850-550M	1000BASE-SX SFP, 850nm, 550M, MMF, DDM
1002622	SFP-SMF-1310-10km	1000BASE-LX SFP, 1310nm, 10km, SMF, DDM
1002670	SFP-SMF-1310-40km	1000BASE-LX SFP, 1310nm, 40km, SMF, DDM
1002623	SFP-SMF-1550-80km	1000BASE-ZX SFP, 1550nm, 80km, SMF, DDM
1002624	SFP-SMF-CWDM-1470nm-80km	1.25GBASE-CWDM-SFP, 1470nm, 80km, SMF, DDM
1002625	SFP-SMF-CWDM-1490nm 80km	1.25GBASE-CWDM-SFP, 1490nm, 80km, SMF, DDM
1002626	SFP-SMF-CWDM-1510nm-80km	1.25GBASE-CWDM-SFP, 1510nm, 80km, SMF, DDM
1002627	SFP-SMF-CWDM-1530nm-80km	1.25GBASE-CWDM-SFP, 1530nm, 80km, SMF, DDM
1002628	SFP-SMF-CWDM-1550nm-80km	1.25GBASE-CWDM-SFP, 1550nm, 80km, SMF, DDM
1002629	SFP-SMF-CWDM-1570nm-80km	1.25GBASE-CWDM-SFP, 1570nm, 80km, SMF, DDM
1002630	SFP-SMF-CWDM-1590nm-80km	1.25GBASE-CWDM-SFP, 1590nm, 80km, SMF, DDM
1002631	SFP-SMF-CWDM-1610nm-80km	1.25GBASE-CWDM-SFP, 1610nm, 80km, SMF, DDM
1002632-XX	SFP-SMF-DWDM-CHXX-40km	1.25GBASE-DWDM-SFP, CH. 20-59, 40km, SMF, DDM
1002633-XX	SFP-SMF-DWDM-CHXX-80km	1.25GBASE-DWDM-SFP, CH. 20-59, 80km, SMF, DDM

Last 2 numbers indicate channel number (20-59).

COPPER SFP TRANSCEIVER

STOCK #	MODEL
1002620	SFP-C-10/100/1000 Transceiver

Application Example:

MULTI-POINT DISTRIBUTION

PEG ENCODERLOCALLY ORIGINATED CONTENT

