Public Educational & Governmental Access PEG Encoder

www.rldrake.com

937-746-4556

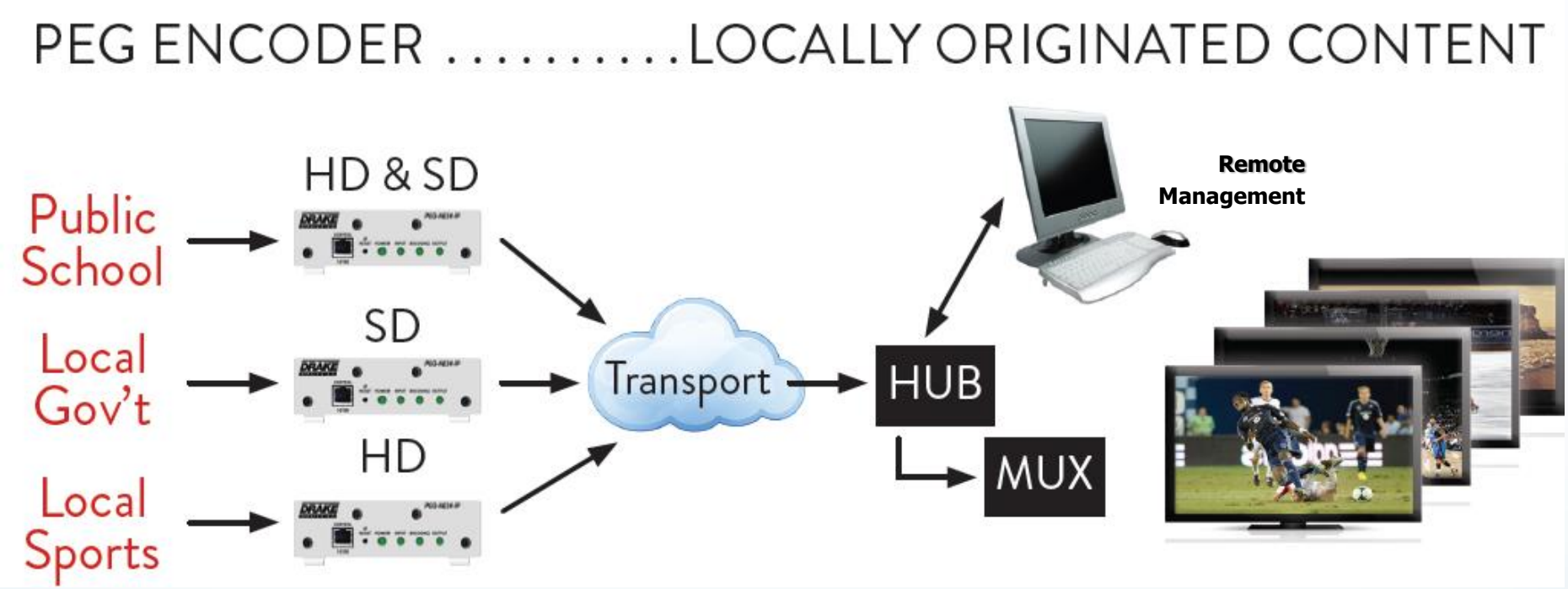
Drake Solutions

- Industry leader in providing modular and scalable encoding solutions for leading CATV Operators, Broadcasters, Private Networks and Government Facilities
- Cost effective and reliable MPEG2 and MPEG4 H.264 encoding for traditional RF QAM and IPTV applications worldwide
- NEW PEG Encoder
  MPEG-2/H.264 HD + SD with SFP Copper/Fiber IP output

PEG Encoder Overview

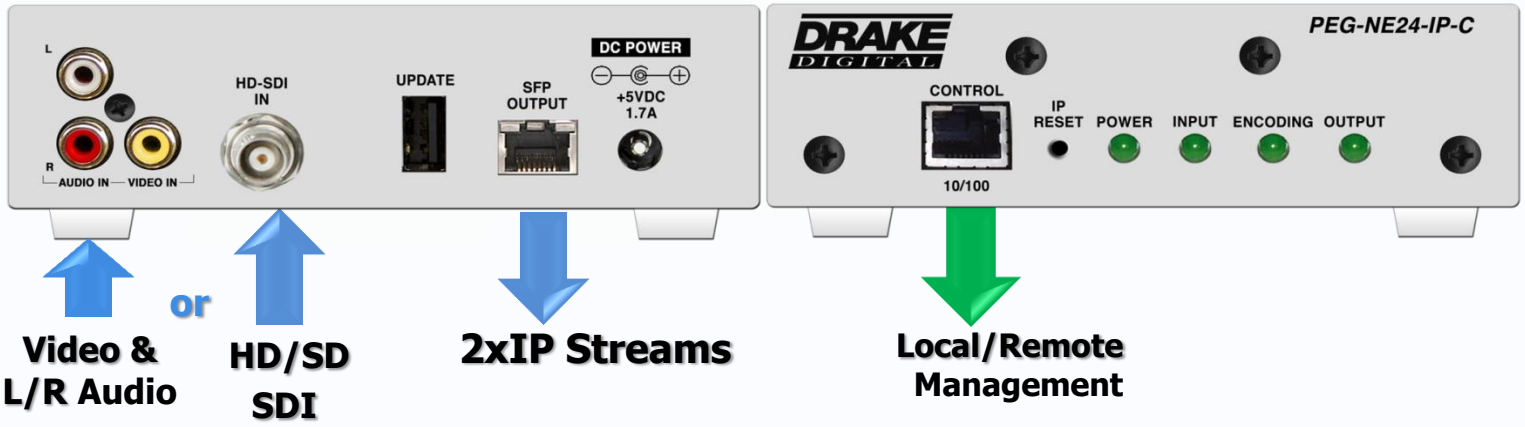
- A PEG (Public Education Government) channel carries local public access, school events, and municipal government programming.
- The PEG encoder is used to transport video and audio signals from a local origination site back to Service Provider Headend or hub location, so it can be multiplexed and broadcasted over the Service Provider's franchise area.
- Programing content includes high school sports events, live coverage of town hall and school committee meetings, and local citizens content.

PEG Encoder Application



PEG Encoder Models

Model: PEG-NE-IP-C stock # 1002613



Model: PEG-NE-IP stock # 1002603

PEG Encoder 3 in 1 RU

PEG Encoder Functional Specifications

- Hardware 1 RU:
  - Single AC Power Supply
- Input:
  - 1 HD/SD-SDI BNC type connection
    - Model # 1002606
  - HD/SD-SDI or Composite (Video with Left & Right Audio) RCA connector
    - Model # 1002613
  - Auto-scan for input resolution
  - Video Modes
    - 480i (640x480/720x480 @ 30FPS)
    - 720P (1280x720 @ 60FPS)
    - 1080i (1920x1080 @30FPS)
  - Audio:
    - SDI HD/SD Embedded Audio
    - Analog Audio Left & Right
- IP Output:
  - SFP module (Copper or Optical SFP)
  - SFP optical distances10km, 40km, 70km, and ITU SFPs
  - SFP CWDM and DWDM

PEG Encoder Video & Audio Specifications

- Video Encoding:
  - MPEG-2 & H.264 encoding
  - HD (720p & 1080i)
  - SD 480i
  - Output 2 x IP Streams (SPTS)
    - HD MPEG-2 + SD MPEG-2
    - HD H.264 + SD MPEG-2
    - HD H.264 + SD H.264
  - Supports Frame or Field encoding
- Audio Encoding:
  - Dolby Digital AC-3
  - AAC (Advanced Audio Coding) stereo audio
  - MP2 (MPEG-1 Audio Layer 2) stereo audio

PEG Encoder Features

- Encodes a HD & SD stream of the same content in either MPEG-2 or H.264 formats
- Optional In-band management with VLAN support on SFP output
- GUI-based menu for local & remote configuration (Password Protected)
- Configuration and shutdown control via HTTP server UI and programmable API
- Unicast or Multicast
- Provides Null Packet stuffing up to 25 Mbps

PEG Encoder Benefits

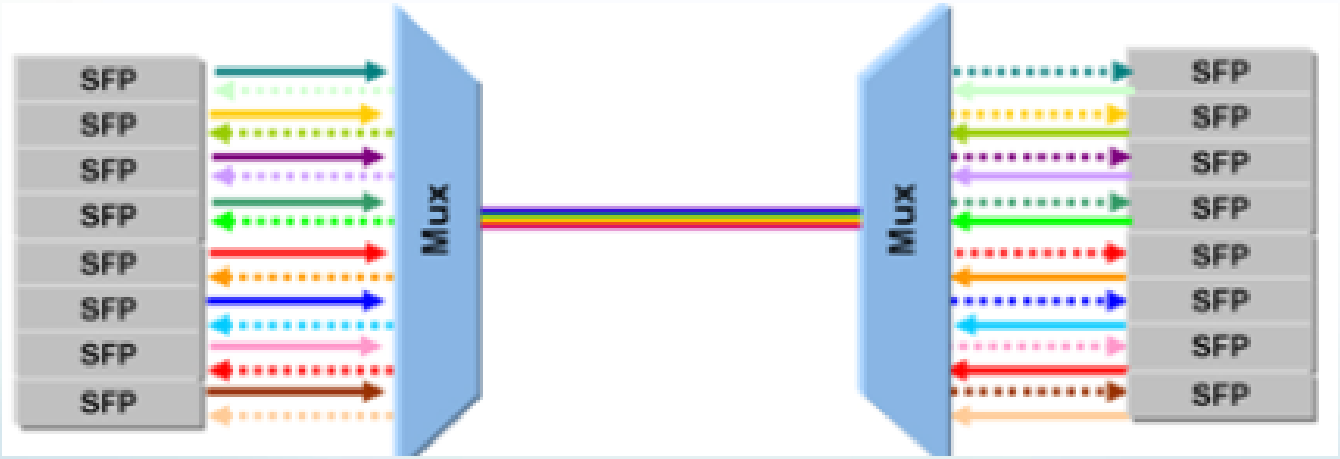
- Built-in watchdog timer with system reboot capability
- SNMP v2 support for Network Monitoring
- Easily integrated into 3rd party Management Systems
- IP Reset Button (default to factory IP Address)
- Displays encoder status messages in System Log
- Audio Test Tone enabled on loss of input
- Front Panel Activity LEDs
- Field upgradable firmware

PEG Encoder Stream Settings

- Primary Stream settings
  - HD MPEG-2 bitrate settings 9 to 19 Mbps
  - HD H.264 bitrate settings 6 to 13 Mbps
  - SD MPEG-2 bitrate settings 2 to 8 Mbps
  - SD H.264 bitrate settings 1 to 4 Mbps
  - Selectable Audio bitrate of 128,192, & 384 kbps
- Secondary Stream settings
  - SD MPEG-2 bitrate settings 2 to 8 Mbps
  - SD H.264 bitrate settings 1 to 4 Mbps
  - Selectable Audio bitrate of 128,192, & 384 kbps

PEG Encoder
SFP Module Interface

- SFP Interface Module:
  - Copper
    - 10/100/1000 Base-T
    - Auto negotiation support
  - Optical
    - 850nm, 1310nm, and 1550nm
    - CWDM and DWDM

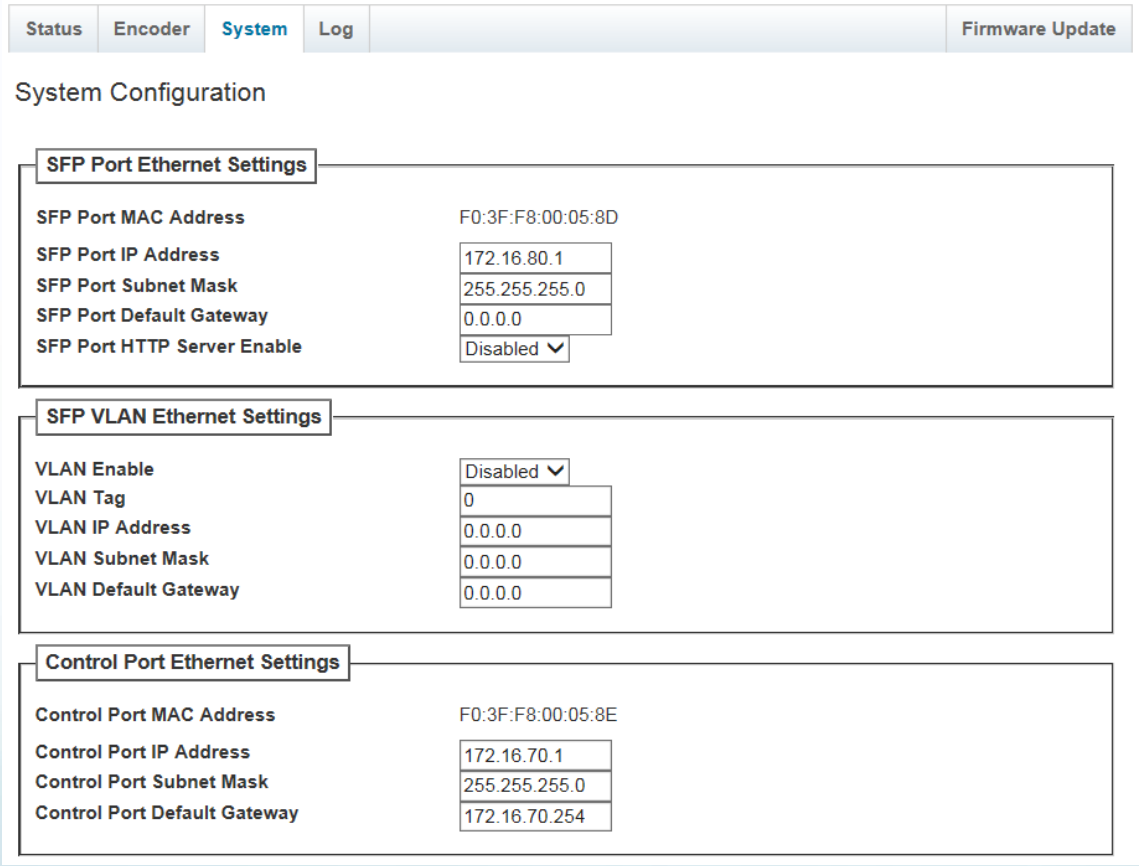


PEG Encoder
SFP Module Interface

Part number	Model	Description
1002620	SFP-C-10/100/1000 TRANSCEIVER	10/100/1000BASE-T SFP, RJ-45, 100M, COPPER
1002621	SFP-MM-850-550M	1000BASE-SX SFP, 850NM, 550M, MMF, DDM
1002622	SFP-SMF-1310-10KM	1000BASE-LX SFP, 1310NM, 10KM, 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).		

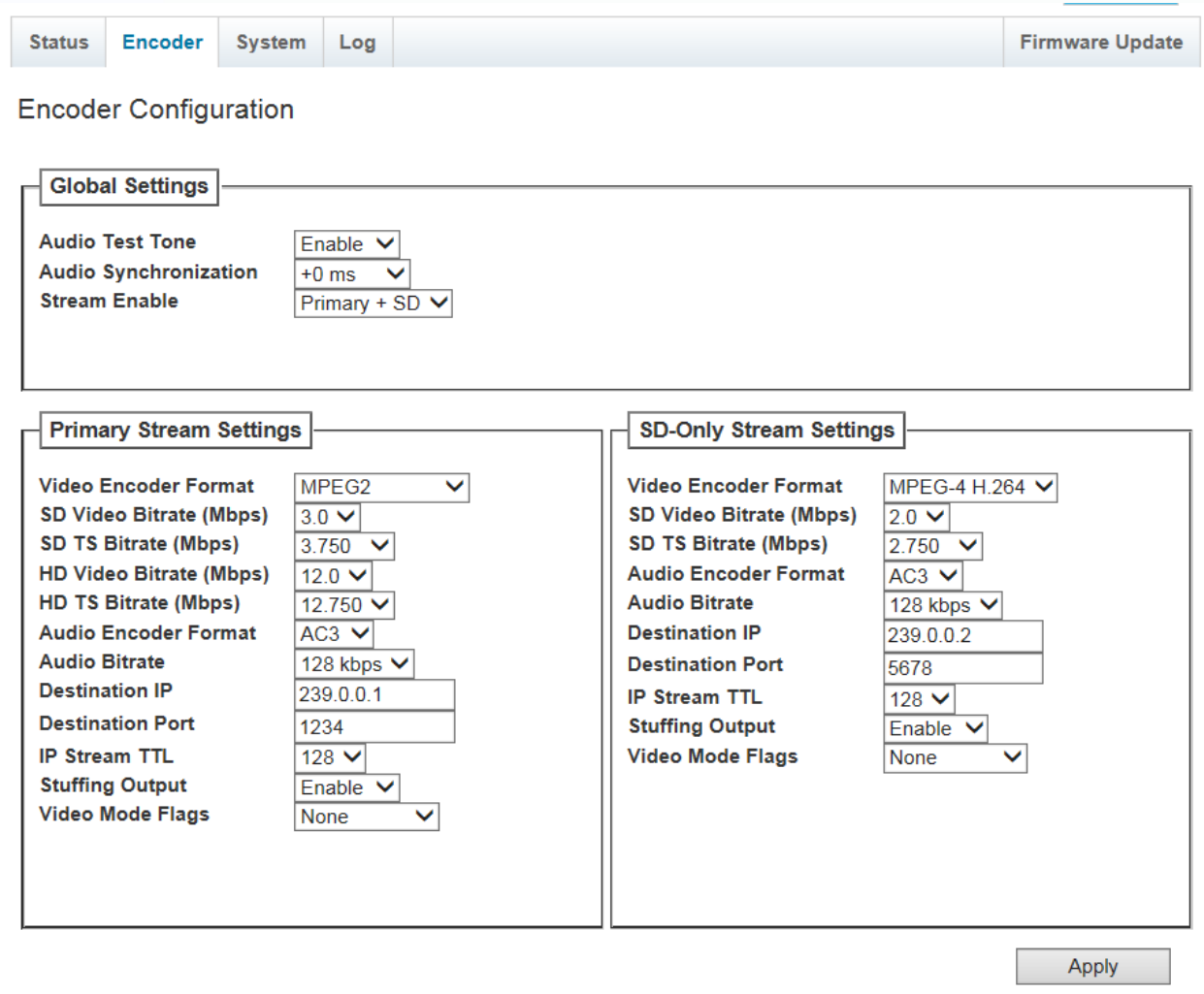
PEG Encoder IP Addresses

- Easy configurable IP addresses:
  - SFP IP address
  - SFP VLAN
  - Management



PEG Encoder Configuration Page

- Easy to use pull down menu to set parameters



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