EH244-Q IP

Flexible Encoder Host Chassis

The **EH244-Q IP** Encoder Host Chassis provides an ideal platform for MPEG-2 or MPEG-4/H.264 video encoding needs due to its many flexible and configurable output options. Designed to house any combination of Drake's popular HD or SD encoder modules, including the **SDE24**, **HDE24A**, and **SDI24A**.

The **EH244-Q IP** is designed with a total of 6 input bays and an internal multiplexer that allows the user to construct custom program multiplexes and output them in any combination of RF QAM or IP based on the output configuration ordered.

By offering these flexible options customers can purchase a single output configuration based on an exact need to stay within budget or choose multiple output configurations to support both current and future needs such as RF QAM and IP. The chassis also has an RJ-45 Ethernet management port and an ASI data port for low data rate applications such as EAS (Emergency Alert System).

Features & Benefits

• Provides cost effective SD or HD MPEG-2 and MPEG-4/H.264 encoding solution

• Compact 2RU Chassis houses up to 6 Drake Encoder Modules

• Front panel display and control in addition to GUI based remote interface

• Available with any combination of RF Quad QAM or IP Output

• Encoder cards available to support Composite Video, Component Video, HDMI and HD SD SDI

• Supports both Dolby® AC3 and MPEG1-Layer2 audio encoding

• EAS Ready (Emergency Alert) Program Replacement and SCTE-18 are both supported

Applications

Broadcast Cable TV or Telco Networks, Hospitality Cruise Ships, Health Care, Government/Military, Educational, Commercial Business Enterprise

Item #	Description
1002568	*EH244 IP & QUAD QAM Encoder Host*

MULTIPLEXER SPECIFICATIONS

Program Filtering and Grooming:	Each encoder output can be disabled or output to any or all output channels
Multiplexer:	All programs directed to each output are multiplexed into a correct multi-program transport stream

TABLE HANDLING – PSIP (Program and System Information)

PSIP Table Rewriting:	Supported
MGT/VCT Table Generation:	Supported
SCTE-18 EAS Generation:	Supported

IP (Internet Protocol) OUTPUT

1000Base-T Ethernet (GbE) Connector Format:	1 x RJ45 Gigabit Ethernet (GbE)
Data Throughput:	214 Mbps
Standard:	IEEE 802.3 10/100/1000 Base-T Ethernet
Packet Format:	RTP within UDP
Source Address Assignment:	Single IPv4 address & port; user-selectable

QAM (Quadrature Amplitude Modulation) MODULATOR / MULTIPLEXER (per chassis)

Modulation Modes:	64, 256 QAM ITU j.83 Annex B 16, 32, 64, 128, 256 QAM ITU j.83 Annex A
Symbol Rates:	1 – 7 Msps variable, with presets for Annex B
Frequency Coverage:	54 – 1002 MHz, up to 4 frequency-adjacent channels
Channel Plans:	Standard CATV, HRC, IRC, Broadcast
Max Output Power:	+ 54 dBmV
Min Output Power:	+ 42 dBmV
Output Level Accuracy:	± 2 dB
Phase Noise:	< −108 dBc/Hz @ 10 kHz offset
Broadband Noise:	< −75 dBc @ 12 MHz offset in a 6 MHz bandwidth
MER:	> 44 dB equalized
Channel Frequency Response:	< 1dB
Carrier Suppression:	> 80 dB
I/Q Imbalance:	< 1 degree
Spurious Emissions:	< -60 dBc

NON-STREAMING SINGLE ASI OUTPUT

ASI Connectors:	1 x BNC for EAS/DTA data control only
Format:	DVB-ASI for EAS/SCTE-65
Data Throughput:	214 Mbps
Standard:	ETSI EN 50083-9

PHYSICAL SPECIFICATIONS

Temperature Rating:	0 – 50 C ambient
Form Factor:	2RU 19'' rack enclosure
Dimensions:	14.25''D x 3.5''H x 19'' W
Weight:	12 lbs.
Power Requirements:	90 – 260 VAC, 65 W maximum