

EH244

Flexible Encoder Host Series Chassis

The **EH244** Series 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** 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, ASI (transport stream) 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. Common to all **EH244** chassis are an RJ-45 Ethernet management port and an ASI data port for low data rate applications such as EAS (Emergency Alert) and DTA set top box control data to support Drake's "All Digital Bandwidth Recovery Solution".

For applications that require ASI for program stream distribution the Quad ASI option must be ordered.



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, IP or Quad ASI 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	Item #	Description
1002579	EH244 IP & QUAD ASI Encoder Host	1002568	EH244 QUAD QAM Encoder Host
1002578	EH244 IP Only Encoder Host	1002593	EH244 Q-IP-ASI
1002569	EH244 QUAD QAM & ASI Encoder Host	1002580	EH244 IP & QUAD QAM Encoder Host

TECHNICAL DATA & SPECIFICATIONS

DRAKE EH244 ENCODER HOST 6 VERSIONS

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
ASI Outputs:	An optional 4 ASI Output board may be ordered that mirrors the 4 QAM channel output transport streams

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 – EH244 IP (Common to all IP models)

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

STREAMING QUAD ASI – EH244 Q-ASI (Common to all ASI Models)

Connector:	4 x BNC
Format:	DVB-ASI; 50083-9
ASI Data Bit Rate:	270 Mbps

NON-STREAMING SINGLE ASI OUTPUT (All EH244 Models)

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
Source Address Assignment:	Single IPv4 address & port; user-selectable

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

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