

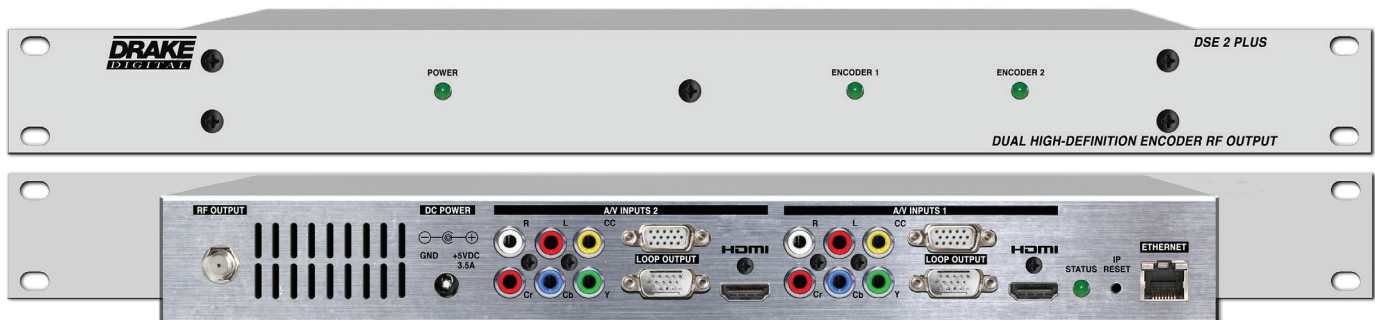
DSE 2 PLUS

Dual HD Digital Signage Encoder w/ Multiplexed QAM Output

The **DSE 2 PLUS** encodes up to two (2) uncompressed programs derived from devices with HDMI (non-HDCP), high-resolution Component video, VGA, or Composite outputs. The unit encodes the incoming programs to MPEG-2 or MPEG-4 / H.264 compressed video for a single multiplexed QAM output.

An internal multiplexing QAM modulator and low-noise upconverter allows existing legacy fiber/coaxial networks to be used as distribution channels for digital signage content.

This provides instant access to an extensive network of digital displays capable of viewing valuable ad-based or informational video in a vibrant high-definition format.



Features & Benefits

- Receives High-Resolution Component, VGA, or HDMI (non-HDCP) from two separate video sources
- Digitally encodes to MPEG-2 or MPEG-4/H.264
- Encodes to resolutions of 480i, 480p, 720p, or 1080i
- Audio encoding to Dolby® Digital or MPEG1-Layer2
- Supports Closed Captioning
- GUI-based Remote Network Control and Monitoring
- Desk Mount instead of Rack Mount available
- 2-to-1 HD Program Encodes offer greater bandwidth efficiency
- Single 1RU Rack Space chassis for economical footprint
- MPEG-4/H.264 Compression for Lower Bit Rate Consumption
- GUI-based Remote Control for Ease-of-Use

Applications

Digital Conversion, Digital Signage, PEG Channel Insertion

Model	Item #	Description
DSE 2 PLUS	1002583	Dual HD Digital Signage Encoder with a Multiplexed QAM Output

TECHNICAL DATA & SPECIFICATIONS

DRAKE DSE 2 PLUS (1002583) HD ENCODER with QAM OUTPUT

ENCODER - VIDEO (Specifications are per Encoder)	
Video Inputs:	VGA (with pass-through to monitor), HDMI (non-HDCP Copy Protected), Component (Y-Cr-Cb), Composite (via Y-Input for 480i)
Video Resolution Modes:	480i (640x480 / 720x480 @ 30 fps), 480p (640x480 / 720x480 @ 60 fps), 720p (1280x 720 @ 60 fps), 1080i (1920x1080 @ 30 fps)
Video Input Resolution Detection:	Yes, automatic
Video Compression Format:	MPEG2 or MPEG4 / H.264
Video Adjustments:	Brightness, Contrast, Hue, Saturation, Sharpness
MPEG4 / H.264 Profiles Supported:	Simple, Advanced Simple, High
Bitrate:	0.000 to 19 Mbps (depending on format)

ENCODER - AUDIO (Specifications are per Encoder)	
Audio Inputs:	HDMI-embedded audio, 32 - 192 kHz sample rate PCM RCA-type L + R 1 x 1 Vrms nominal 3.5 Vrms max supports +/- 15 dB gain adjustment
Audio Compression Formats:	Dolby® Digital or MPEG1, Layer 2

QAM (Quadrature Amplitude Modulation) MODULATOR / MULTIPLEXER (per chassis)	
QAM Output Modes:	64 QAM or 256 QAM, ITU Annex B
Frequency Coverage:	5 - 1002 MHz
Channel Plans:	Standard CATV, HRC, IRC, Broadcast and T Channels
Maximum Output Power Level:	+ 45 dBmV
Level Adjustment Range:	15 dB
Phase Noise:	- 95 dBc @ 10 kHz offset
Broadband Noise:	- 75 dBc @ > +/- 12 MHz
MER:	> 40 dB equalized
Channel Frequency Response:	< 1 dB
Carrier Suppression:	> 40 dB
I/Q Inbalance:	< 1 degree
Output Level Accuracy:	+/- 1 dB

QAM (Quadrature Amplitude Modulation) MODULATOR / MULTIPLEXER (per chassis)	
Form Factor:	1RU 19" rack mountable
Control:	On-board Ethernet Connection
Power Requirements:	+5 V @ 3.5A via supplied external power supply
Dimensions:	10.5"D x 2.0"H x 19" W
Weight:	4.5 lbs.
Temperature Rating:	0 - 50° C ambient

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