

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.