

**DRAKE Encoder Chassis 4 QAM Output  
Model# EH244**

| <b>Multiplexer Specifications</b> |   |
|-----------------------------------|---|
| 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 Output:                       | An optional ASI output board may be ordered that mirrors the 4 QAM channel output transport streams |
| <b>PSIP Table Handling</b>        |   |
| PSIP Table Rewriting:             | Supported   |
| MGT/VCT Table Generation:         | Supported   |
| SCTE18 EAS Generation:            | Supported   |
| <b>Modulator Specifications</b>   |   |
| Modulation Modes:                 | 64, 256QAM ITU j.83 Annex B<br>16, 32, 64, 128, 256QAM ITU j.83 Annex A                             |
| Symbol Rates:                     | 1-7Msps variable, with presets for Annex B  |

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|                             |  |
|-----------------------------|--|
| Frequency Coverage:         | 54-1002MHz, up to 4 frequency-adjacent channels    |
| Channel Plans:              | Standard CATV, HRC, IRC, Broadcast                 |
| Max Output Power:           | $\pm 54\text{dBmV}$                                |
| Min Output Power:           | $\pm 42\text{dBmV}$                                |
| Output Level Accuracy:      | $\pm 2\text{dB}$                                   |
| Phase Noise:                | $< -108\text{dBc/Hz@10kHz offset}$                 |
| Broadband Noise:            | $< -75\text{dBc@12MHz offset in a 6MHz bandwidth}$ |
| MER:                        | $>44\text{dB equalized}$                           |
| Channel Frequency Response: | $<1\text{dB}$                                      |
| Carrier Suppression:        | $>80\text{dB}$                                     |
| I/Q Imbalance:              | $<1\text{ degree}$                                 |
| Spurious Emissions:         | $< -60\text{dBc}$                                  |

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| General             |                         |
|---------------------|-------------------------|
| Temperature Rating: | 0-50C ambient           |
| Form Factor:        | 2RU 19" rack enclosure  |
| Dimensions:         | 14.25"D x 3.5"H x 19" W |
| Weight:             | 9.5 lbs                 |
| Power:              | 90-260VAC 65W maximum   |