

DVE6100

4K UHD Multi-Format,
Multi-Channel Exciter



The DVE6100 is a compact 4K UHD multi-format, multi-channel exciter, ideally suited to flyaway and vehicle mounted applications, where size and weight is at a premium.

The DVE6100 offers ultimate satellite bandwidth efficiency by utilising the latest HEVC video compression and DVB-S2X satellite modulation technology, allowing a 50% reduction in leased satellite bandwidth compared to MPEG-4, DVB-S2 technology. This enables a substantial reduction in satellite OPEX.

As a multi-format encoder, the DVE6100 has the ability to encode video of all resolutions, from SD to highest quality 4K UHD, including High Dynamic Range. The unit's multi-channel capability means that up to 4 HD video services can be encoded by one unit — providing the user with a highly channel dense, flexible solution.

Key Features

[DVB-S2X, S2, S satellite input](#)

[ASI inputs and outputs](#)

[4K, HD, SD multi-format encoding](#)

[HEVC, MPEG-4, MPEG-2 multi-standard encoding](#)

[High quality 4:2:0, 4:2:2, 8-bit/10-bit profiles](#)

[1x 4K or HD services encoded](#)

[Very low latency encoding](#)

[High Dynamic Range support](#)

[Flexible audio encode with Layer II, AAC](#)

[Linear PCM and Dolby audio pass-through](#)

[8x stereo pairs of audio encoding](#)

Typical Applications

[High quality Events coverage](#)

[Sports coverage](#)

[Newsgathering](#)

[Secure Satcom](#)

[MilGov applications](#)

DVE6100 Datasheet



Technical Specifications	
Inputs	<ul style="list-style-type: none"> • 2 SFP+ module slots supporting electrical and optical interfaces carrying: • 4 x SDI SMPTE-259M • 4 x HD-SDI SMPTE-292M • 4 x 3G-SDI SMPTE-424M • 2 x 6G-SDI SMPTE ST-2081 • 1 x 12G-SDI SMPTE ST-2082
Outputs	<ul style="list-style-type: none"> • L-band main output • L-band monitor output • 10MHz reference • ASI TS output
Video Profiles	<ul style="list-style-type: none"> • H.265 HEVC Main, Main 10, Main 4:2:2 10 • H.265 HEVC 8/10 bit to 4K p60 • H.264 AVC Main, High, Baseline up to Level 5.2 • H.264 AVC High 10/4:2:2 • H.264 AVC 4:2:0/4:2:2 8/10 bit to HD p60 • MPEG-2 SD/HD 4:2:0
Video Encoder	<ul style="list-style-type: none"> • HEVC 4K UHD, HD, SD encode • MPEG-4 HD, SD encode • MPEG-2 HD, SD encode
Video Formats	<ul style="list-style-type: none"> • 480i@29.97 • 576i@25 • 720p@50/59.94/60 • 1080i@50/59.94/60 • 1080p@23.98/24/25/29.97/ 30/50/59.94/60 • 2160p@23.98/24/25/29.97/ 30/50/59.94/60
Service Encodes	<ul style="list-style-type: none"> • 1x 4K UHD service • Up to 4x HD/SD services • 4K Native and UHD (1 Service) • HD (Up to 4 Services) • 1.0-90 Mbps (per channel with maximum combined rate of 90 Mbps) • SD (Up to 4 Services) • 4.2.0 Main 0.5-90 Mbps • 4.2.2 Main 2.0-90 Mbps
Encryption	BISS Mode 1 & E
Audio Encoder	<ul style="list-style-type: none"> • MPEG-1 Layer I encode • MPEG-1 Layer II encode • AAC-LC encode • HE-AAC encode • Linear PCM pass-through • Dolby E Pass-through
Audio Channels	Up to 8x stereo pairs
Ancillary Data	<ul style="list-style-type: none"> • Closed Captions • Inuisidot

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Technical Specifications	
Satellite Modulation	<ul style="list-style-type: none">• DVB-S QPSK• DVB-S2 QPSK, 8PSK, 16APSK• DVB-S2X QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK
Modulation Parameters	<ul style="list-style-type: none">• All FECs as applicable to modulation modes• 5%, 10%, 15%, 20%, 25%, 30%• Short Frames & Long Frames
Modulated Output	<ul style="list-style-type: none">• 950 - 2150 MHz in 1kHz Steps• Output power -5 to +5dBm• Monitor level -20dB relative to main
Unit Control	<ul style="list-style-type: none">• Front panel control• Web GUI• SNMP
Control Interface	Ethernet RJ45
HPA Control Interface	<ul style="list-style-type: none">• Ethernet• Serial
Software Upgrade	USB Software upgrade
Power	<ul style="list-style-type: none">• 100 to 240VAC• DC PSU option
Dimensions	<ul style="list-style-type: none">• 1RU Half rack width, 380mm deep• Weight 2kg
Environmental	<ul style="list-style-type: none">• Temperature: 0° to 50°C• Humidity: 95% non-condensing

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