APPLICATIONS

Satellite delivery of programming to:

- ATSC transmitters
- DVB-T Transmitters
- ISDB-T Transmitters
- Cable Headends
- DTH Operators

FEATURES

- Frame-accurate DPI splicing
- Open-standards using SCTE-35
- On-screen graphics overlays: logos and text crawler
- HD/SD video decoding via HD-SDI output

INTEGRATION

- **Traffic:** DPI schedule file direct import into **Production Manager**
- **Automation:** Real-time triggering of DPI events by playout automation using IP or GPIO via **Production Manager**

EDGECASTER PRO

Digital Program Insertion platform with Decoder & On-Screen Graphics

Edgecaster Pro is a powerful platform enabling broadcasters to control video content to the network's edge like never before. Regionalized content, precision targeted advertising, and blackout management are handled locally, with frame-accurate SCTE-35, video decoding with graphics overlay for logos and crawler text, and a broadcast-quality HD-SDI output ready for retransmission.

Streamlined, powerful and cost-effective, **Edgecaster Pro** is a single box solution that includes satellite receiver, content storage server, program splicer, video decoder with on-screen graphics overlay, all in one 2RU chassis. The broadcast quality video decoder includes a graphics overlay subsystem which allows for the insertion of on-screen graphics for channel branding/identification as well as text crawler function for alerts including a dedicated color scheme for emergency warning messages. All functions are under the control of the customer's automation playout system.

Edgecaster Pro is fully integrated with IDC's **Production Manager** content management and scheduling system. **Production Manager** provides an end-to-end solution for ingesting, targeting, transmitting and confirming regional program and advertising content delivery and playback. **Production Manager** features integration with customer's existing automation systems for playout and traffic systems for scheduling to allow every site to have different ads, different graphics overlays or different crawler messages simultaneously to maximize the reach and power of every location.

Edgecaster on-screen graphics in use.

TECHNICAL

ETHERNET INPUT	
IP Data	GigE*
Connector	RJ-45
DATA FILES	
Access Modes	over-the-satellite
OTHER OUTPUTS	
IP Data	10/100Base-T Ethernet
Alarm/Warning	Relay closure via DB-9
Relay	Solid state relay closure via DB-9 (1 input, 1 output)
RF CHARACTERISTICS	
Input Frequency Range	950 to 2150 MHz
Input Level Range	-25 to -65 dBm
Input Connector	Type-F
LNB Power	18 VDC@350 mA
Universal LNB Power	13/18 VDC@350 mA max. 22kHz, Control Tone
Symbol Rate Range	
DVB-S QPSK	0.256-45 MBaud
DVB-S2 QPSK	2-45 MBaud
DVB-S2 8PSK	2-45 MBaud
FEC Coding	
DVB-S QPSK	1/2, 2/3, 3/4, 5/6, 7/8
DVB-S2 QPSK	1/2, 2/3, 3/4, 4/5, 5/6, 7/8, 9/10
DVB-S2 8PSK	2/3, 3/4, 5/6, 8/9, 9/10
ASI INPUT (Option)	
MPEG Transport Stream	DVB-ASI
Connector	BNC

HIGH DEFINITION VIDEO DECODER	
Video Compression Codec	MPEG-2 MPEG-4 AVC (h.264)
Color Sampling	4:2:0
Video Outputs	Composite - NTSC/PAL Digital – HD/SD-SDI
SD Resolution	480i & p
HD Resolution	720p, 1080i
Level	1.0Vpp +/- 5%
Impedance	75 Ohms
Output Compatibility	Downscales HD video sources to SD output resolution simultaneously
Audio Compression Codec	MPEG-4 AAC-LC Dolby AC-3 (opt) MPEG-1 Layer II
Sample Rates	44.1 & 48 kHz
Composite Video	BNC connector
HD-SDI Video	BNC connector (2) channels, embedded audio Line 21 data in VANC
Balanced Audio	(2) channels
Digital Audio	(2) AES channels
Audio Connector	DE-15
MECHANICAL	
Power	115 VAC +/-10%,0.8 A max, 60 Hz
	230 VAC +/-10%,0.5 A max, 50 Hz
Size	3.5 " x 17 " x 17.5 " (rack mount)
Operating Temperature	10° to 40° C