



Inca IP Video Platform

Linear and ABR Transcode Solution

Chassis Specifications



4440 Chassis Density

Linear Transcoding	Up to 48x HD or 90x SD sources
ABR Transcoding	Multi-bitrate profiles: Up to 24x HD sources to 4x ABR profiles Up to 48x SD sources to 2x ABR profiles
Video Network Interfaces	Front network options: 8x 1000 Base-T 4x 10 Gig SFP+ Capacity for up to 3x transcoder/receiver modules Rear network options: 4x 1000 Base-T 2x 10 Gig SFP+ Capacity for up to 4x transcoder/receiver modules

Power

Type	Dual redundant hot swap
Input	100 – 240 VAC @ 50 - 60 Hz Redundant DC power option available
Power	< 200 W typical

Physical

Mounting	19", 4 post rack, 1RU Slide rails included
Dimensions	438 x 44 x 525 mm 19" x 1.75" x 20.7"
Rack Rail Depth	620 - 805 mm 24.4" - 31.8"
Weight	15 kg / 33.1 lb
Operating Temp.	0 – 40 °C

Technical Specifications

Transport Stream Processing

Inputs	MPEG-2 SPTS/MPTS transport stream Multicast / Unicast UDP IP, SRT, MPEG-DASH
Outputs	MPEG-2 SPTS transport stream Multicast / Unicast UDP IP, SRT, HLS Transcode to SPTS Demux or pass through to SPTS/MPTS
Input and Output Codecs	MPEG-2 and MPEG-4 AVC, HEVC 4:2:0
Source Resolutions and Frame Rates	1920x1080i @ 30/25 704x480i @ 30 1280x720p @ 60/50 544x480i @ 30 720x576i @ 25 528x480i @ 30 720x480i @ 30 <i>Other formats supported, please inquire</i>
Output Resolutions and Frame Rates	1920x1080i/p @ 30/25 720x576i/p @ 25 1440x1080i/p @ 30 720x480i/p @ 30/25 1280x720p @ 60/50 704x480i/p @ 30/25 1280x720p @ 30/25 544x480i/p @ 30/25 854x480p @ 30 528x480i/p @ 30/25 852x480p @ 30 192x192p @ 15 (PIP) <i>Other formats supported, please inquire</i>
Transport Stream Optimizations	PID and program filter and remap, jitter correction, strip null padding, transport rate VBR <-> CBR conversion
Transport Modes	Constant, variable, peak
Closed Captions	EIA 608/708 passed through if present in source
DVB Subtitle Burn In	Select by language
DVB Subtitle PID	Passed through if present in source
SCTE 35 Ad Markers	Passed through if present in source

Demux to IP and TS Probes

From IP Sources	10x included. License option available for 48, 96 or 144 direct outputs
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Audio Transcoding (optional - licensed per stream)

Source Audio Codecs	AC-3, EC-3, AAC (ADTS & LATM), MPEG 1/2 Audio Layer III
Source Audio Channels	7.1, 5.1, 2.0, 1.0
Output Audio Codec	AC-3, EC-3, AAC (ADTS & LATM), MPEG-1/2 Audio Layer III
Output Channels	2.0, 1.0
Audio Processing	Nielsen watermark extraction and ID3 tags insertion

Redundancy Options

Service Failover (Licensed per output)	Automatic failover to backup source Automatic recovery to primary source
N+1 Chassis Redundancy (Licensed per chassis)	Automatic failover to spare chassis Automatic recovery to primary chassis

Management

Configuration	Powerful VidiOS™ web-based user interface
Visual Mosaic Monitoring	Compatible with All Seeing Eye monitoring product - All Seeing Eye probe capability included
Management Network Interface	1000 Base-T
NIC Redundancy	LACP, active failover, round robin
SNMP	SNMP trap forwarding

Regulatory Compliance

EMC Standards	EN 50083-2
Safety Standards	CE