



Inca Modular Series 4400

Linear & ABR High-Density Transcoder

- ✓ MPEG-4, MPEG-2, and HEVC sources/outputs
- Multiple chassis options with low power consumption
- ✓ Input modules available for GigE, 8VSB/QAM, or ASI
- ✓ Transcode, transrate, downscale up to 48x HD or 120x SD
- ✓ Award-winning VidiOS[™] stream monitoring and analysis
- Automatic service failover, chassis and power redundancy



Applications

- Optimize the format, resolution and bitrate of large numbers of live satellite, IP and off-air digital sources for delivery to set-top boxes or multiscreen devices.
- Enable efficient HD and SD IP video distribution over DSL and cable networks by transcoding high bitrate MPEG-2 or MPEG-4 AVC sources to optimized MPEG-4 AVC.
- Transcode MPEG-4 or HEVC sources to MPEG-2 CBR or VBR outputs to feed legacy cable systems.
- Receive all your local broadcast channels, including all primary HD and secondary SD sub-channels, and transcode them for delivery over DSL, cable and over-the-top networks.
- Demultiplex sub-channels and deliver local content from off-air signals - with or without transcode.
- Enable full headend visibility with included probe capability and integration with the Inca All Seeing Eye monitoring system.



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Modular Series 4400 Chassis Options

4410 Chassis 4420 Chassis 4440 Chassis







1 expansion module bay

2 expansion module bays

4 expansion module bays

Density	4410	4420	4440
Linear Transcoding	Up to 12x HD or 30x SD sources	Up to 24x HD or 60x SD sources	Up to 48x HD or 120x SD sources
ABR Transcoding	Multi-bitrate profiles Up to 6x HD sources to 4x ABR profiles Up to 12x SD sources to 2x ABR profiles	Multi-bitrate profiles Up to 12x HD sources to 4x ABR profiles Up to 24x SD sources to 2x ABR profiles	Multi-bitrate profiles Up to 24x HD sources to 4x ABR profiles Up to 48x SD sources to 2x ABR profiles
Video Network Interfaces	7x 1000 Base-T	7x 1000 Base-T	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 Capacity for up to 4x transcoder/receiver modules
8VSB/QAM Receivers (optional)	Up to 4 tuners	Up to 8 tuners	Up to 16 tuners
ASI Input Ports (optional)	Up to 6 ports	Up to 12 ports	Up to 24 ports

Power	4410	4420	4440
Туре	Dual redundant hot swap	Dual redundant hot swap	Dual redundant hot swap
Input	100 ~ 240 VAC @ 50 - 60 Hz	100 ~ 240 VAC @ 50 - 60 Hz	100 ~ 240 VAC @ 50 - 60 Hz
Power	< 120 W Typical	<120 W Typical	<200 W Typical Redundant DC power option available

Physical	4410	4420	4440
Mounting	19", 2 or 4 Post Rack, 1RU	19", 4 Post Rack, 1RU Slide rails included	19", 4 Post Rack, 1RU Slide rails included
Dimensions	438 x 44 x 415 mm 19" x 1.75" x 16.4"	431 x 44 x 468 mm 19" x 1.75" x 18.4"	438 x 44 x 525 mm 19" x 1.75" x 20.7"
Rack Rail Depth	N/A	558 - 927 mm 22" - 36.5"	620 - 805 mm 24.4" - 31.8"
Weight	4 kg / 8.8 lb	7 kg / 15.4 lb	15 kg / 33.1 lb
Operating Temp.	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C

Low power consumption ——

Redundant power options

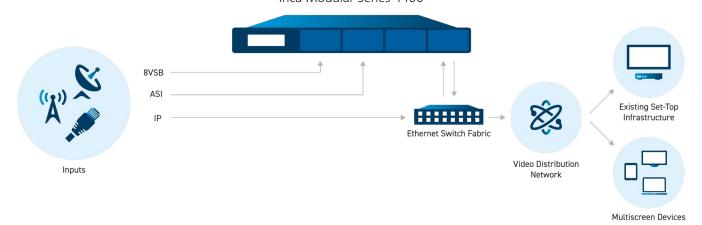


——— Save rack space with 1RU solution



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Transcode, Transrate or Downscale for Linear or ABR Applications Inca Modular Series 4400



Technical Specifications For All Chassis

Transport Stream Processing		
Inputs	MPEG-2 SPTS/MPTS Transport Stream Multicast / Unicast UDP IP Optional 8VSB/QAM, ASI	
Outputs	MPEG-2 SPTS Transport Stream Multicast / Unicast UDP IP Transcode to SPTS Demux or pass through to SPTS/MPTS	
IP Outputs	4410 - Up to 48x outputs 4420 - Up to 96x outputs 4440 - Up to 160x outputs	
Input and Output Codecs	MPEG-2 and MPEG-4 AVC, HEVC 4:2:0	
Source Resolutions and Frame Rates	1920x1080i @ 30/25 1280x720p @ 60/50 720x576i @ 25 720x480i @ 30	
Output Resolutions and Frame Rates	1920x1080i @ 30 1440x1080i @ 30 1280x720p @ 60/50 1280x720p @ 30/25 854x480p @ 30 852x480p @ 30	704x480i @ 30
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 (can be filtered out)	
SCTE 35 Ad Markers	Passed through if present in source	

Regulatory Compliance	
EMC Standards	FCC Part 15 Class A
Safety Standards	CSA/UL 60950-1

Management	
Configuration	Powerful VidiOS™ web-based user interface
Visual Mosaic Monitoring	Compatible with Inca 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

Demux to IP and TS Probes	
From IP Sources	10x included Optional 48 or 96 (*96 option available for 4420 and 4440 only)
From 8VSB/QAM, ASI Sources	Included

Audio Transcoding (optional - licensed per stream)		
Source Audio Codecs	AC-3, EC-3, AAC (ADTS & LATM), MPEG 1/2 Audio Layer I/II	
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 I/II	
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 (optional)	Automatic failover to spare chassis Automatic recovery to primary chassis	

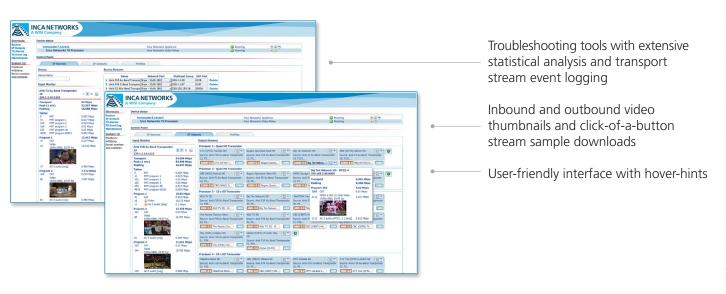
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Available Modules

Hardware Processing & Receiver Modules (Optional)			
MPEG-2/MPEG-4 Transcode N	MPEG-2/MPEG-4 Transcode Modules		
VMA-XC3	High-density transcode module		
VMA-XC2	Medium-density transcode module		
VMA-XC	Low-density transcode module		
HEVC Transcode Modules			
VMA-HXC1	HEVC transcode module		
Receiver Modules with Optional Transcode			
VMA-8VSB-XC2	4x 8VSB tuner plus medium-density transcode		
VMA-8VSB-XC	4x 8VSB tuner plus optional low-density transcode		
VMA-ASI-XC2	6-port ASI interface plus medium-density transcode		
VMA-ASI-XC	6-port ASI interface plus optional low-density transcode		



VidiOS™ Stream Analysis



To arrange an online demonstration or to discuss your project, please send a request to sales@wisi.tv