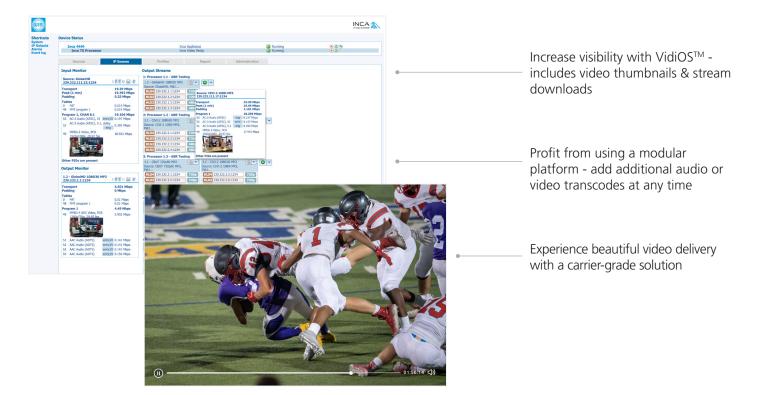




Inca IP Video Platform Linear and ABR Transcode Solution

- ✓ Linear transcoding between MPEG-2, MPEG-4 and HEVC
- ✓ ABR transcoding with market-leading cost per stream
- ✓ Modular, flexible chassis with less than 200 W per chassis
- Receive IP, SRT, MPEG-DASH inputs
- Output video as multicast IP, HLS or SRT
- Automatic service failover, chassis and power redundancy

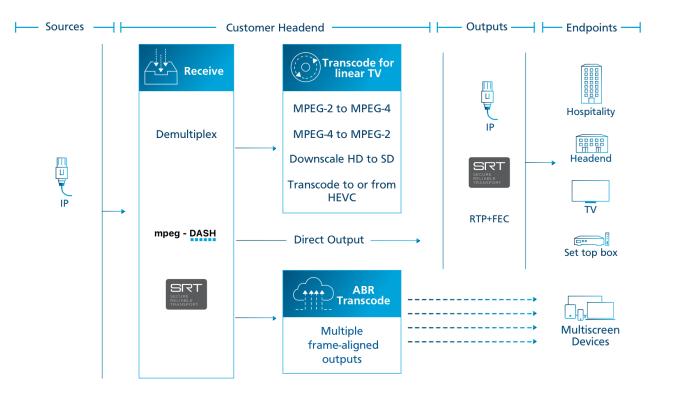


Applications

- 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.
- Clean up problematic sources for ABR deployments with advanced de-interlacing options.
- 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 or HEVC.
- Distribute video easily from broadcaster sites or between remote sites using SRT.
- 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.
- Launch new live OTT services, eliminate set-top boxes and expand your subscriber base beyond your existing distribution network.
- Deliver IPTV services to networks where multicast delivery is not possible; for example, over leased DSL facilities.
- Experience streamlined OTT deployment. Serve HLS clients directly or feed cache or CDN.



Transcode, Transrate or Downscale for Linear or ABR Applications



Available Modules

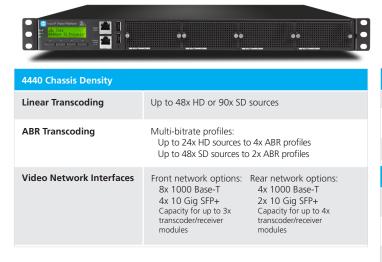
Up to 4 modules can be used in a single Inca chassis. One module type can be installed exclusively or in combination with other modules to support different applications.

GI30 Transcode Module	
Transcode/Transrate/Downscale	Linear - up to 12x HD or 30x SD inputs Adaptive bitrate - up to 24 profiles
De-interlacing options	Weave, bob
Codecs	MPEG-4 AVC and MPEG-2, 4:2:0
GIHXC103 Transcode Module	
Transcode/Transrate/Downscale	Linear - up to 6x HD or 12x SD inputs
De-interlacing options	Advanced, weave, bob
Codecs	HEVC, MPEG-4 AVC and MPEG-2, 4:2:0
Capacity	Up to 3x modules per 4440 Chassis



Inca IP Video Platform Linear and ABR Transcode Solution

Chassis Specifications





Power	
Туре	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

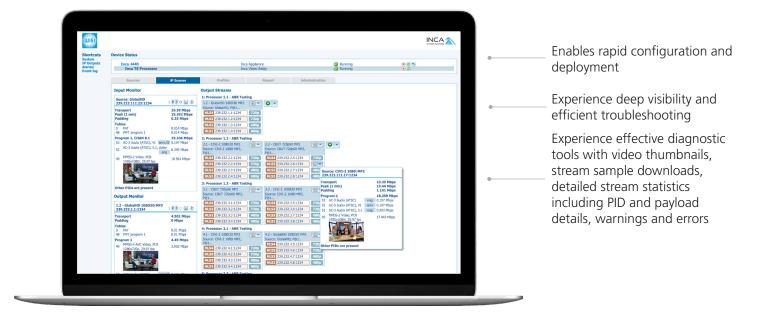
Transport Stream Processing	3	
Inputs	MPEG-2 SPTS/MPTS transport stream Multicast / Unicast UDP IP, SRT, MPEG-DASH	
Outputs	MPEG-2 SPTS transport stream Multicast / Unicast UDP IP, SRT, HLS Transcode to SPTS Demux or pass through to SPTS/MPTS	
Input and Output Codecs	MPEG-2 and MPEG-4 AVC, HEVC 4:2:0	
Source Resolutions and Frame Rates	1920x1080i @ 30/25 704x480i @ 30 1280x720p @ 60/50 544x480i @ 30 720x576i @ 25 528x480i @ 30 720x480i @ 30 Other formats supported, please inquire	
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 54x480p @ 30 528x480i/p @ 30/25 852x480p @ 30 192x192p @ 15 (PIP)	
	Other formats supported, please inquire	
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	

Audio Transcoding (optiona	l - 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 (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



VidiOS[™] Management & Monitoring Tools

Meet VidiOS[™], Inca's advanced processing and monitoring engine that provides unique visibility into every step of the video processing chain.



Pair with the All Seeing Eye for confidence monitoring



- Visual monitoring of all headend streams
- Efficient troubleshooting with visual highlighting of impairments and email notifications
- Overview mosaic of video thumbnails

Pair with the Tangram for more output options

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			Automatic configuration	or				
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			N+1 Re	dundancy			.∎.	
				On				
			Automatic fallover					
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- Enable Verimatrix, Pro:Idiom, Samsung LYNK or BISS encryption/decryption
- Deliver IP, Analog or QAM outputs
- Combine up to 6 modules in 1RU to mix different applications based on deployment needs



Inca IP Video Platform Linear and ABR Transcode Solution

INCA IP Video Platform (1x Gi01R4440 4x bay modular video processing chassis One front or rear network interface module required per chassis GITI GI01R4440 4x GigE rear network interface module required per chassis GITI GINIC1G4 4x GigE rear network card Allows up to 4x transcode/receive modules GITI GINIC10G2 2x 10G SFP+ rear network card Allows up to 3x transcode/receive modules GITI GINIC10G4 4x 10G SFP+ front network module Allows up to 3x transcode/receive modules Tra GINIC10G4 4x 10G SFP+ front network module Allows up to 3x transcode/receive modules GITI Power Supply Options C DC power supply unit to upgrade chassis to redundant, hot swappable DC power GITI GI44SPSDC DC power supply unit to upgrade chassis to redundant, hot swappable DC power GITI Hardware Processing NC transcode module for MEC-2/MPEG-4 with 3x transcode processors GITI GI30 High-density transcode module for MPEG-2/MPEG-4 with 3x transcode processors GITI GISFOVER VidIOST ^M service failover license Monitor one primary service for up to six error conditions, with user configurable thresholds Optionally fail over to secondary source, with au- tomatic recovery to primary source when error clears IP S GICHARED License for N+1 chassis redundan			
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	SIAUX3X		GISTM
Encode to AAC for additional bitrates	IAUXCTRC	AAC	GIHLS

Transcode Licenses for HXC Module (1x License per module)					
GITRC6HEH	6x HEVC HD transcode license Transcode 6x HD video streams between HEVC and MPEG-2/MPEG-4				
GITRC12HE	12x HEVC SD transcode license Transcode 12x SD video streams between HEVC and MPEG-2/MPEG-4				
GITRC624	6x MPEG-2/MPEG-4 HD transcode license Transcode 6x HD video streams between MPEG-2 and MPEG-4				
Transcode Licenses for GI30 Modules (1x License per Transcode Processor)					
GITRC4H4	4x MPEG-4 HD transcode license Transcode 4x HD video streams between MPEG-2 and MPEG-4				
GITRC1054	10x MPEG-4 SD transcode license Transcode 10x SD video streams between MPEG-2 and MPEG-4				
GIFLEX2	MPEG-2 flex transcode license. Flex license can be configured in the user interface to transcode: * 2x HD MPEG-2/MPEG-4 to MPEG-2 HD/SD * 4x SD MPEG-2/MPEG-4 to MPEG-2 SD				
GIFLEXABR	 ABR flex transcode license. Flex license can be configured in the user interface to transcode: 1x HD MPEG-2/MPEG-4 to 6x ABR MPEG-4 profiles, top output profile of 1080p30 or 720p60 2x HD MPEG-2/MPEG-4 to 4x ABR MPEG-4 profiles, top output profile of 720p30 2x SD MPEG-2/MPEG-4 to 5x ABR MPEG-4 profiles 4x SD MPEG-2/MPEG-4 to 2x ABR MPEG-4 profiles Max two downscales per source 				
IP Streaming Licenses					
GIPRO48	VidiOS™ 48x Direct Output License Receive full multiplexes via GigE ports, demultiplex all programs Up to 144 direct outputs per 4440 chassis from IP sources				
GISTMSRT	1x license per stream, per stream Receive and decrypt one SRT stream, or send and encrypt one SRT stream				
GIHLS	HLS streaming license, 1x license per Inca chassis Generate HLS outputs automatically from ABR transcoded outputs Serve up to 700 HLS clients directly, or up to 2.8 Gbps of output bandwidth to CDN or cache				
	achuding PIP licenses for Mediaroom donloyments, ask				

More license options available, including PIP licenses for Mediaroom deployments, ask your sales rep.

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