



INCA NETWORKS
A WISI Company



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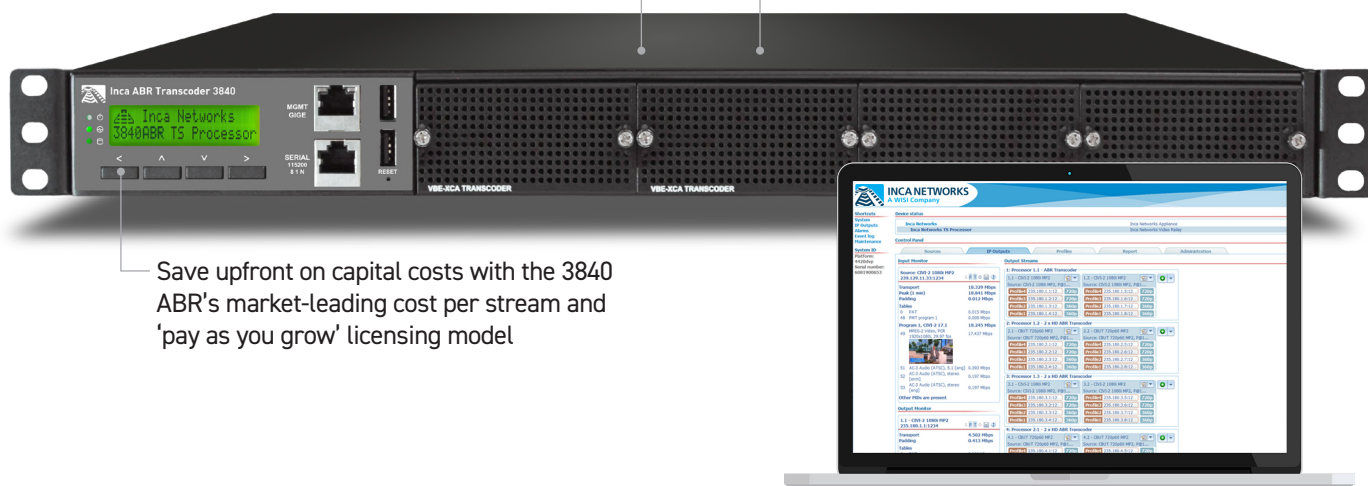
Inca Adaptive Bitrate Transcoder 3840

Carrier-Grade Adaptive Bitrate Transcoder

- ✓ Predictable performance at a market-leading cost per stream with a globally-deployed hardware transcoding engine
- ✓ Supports MPEG-4 AVC & MPEG-2 sources with AAC/Dolby audio to MPEG-4 AVC ABR outputs
- ✓ Award-winning VidiOS™ stream monitoring & analysis
- ✓ Fully licensed chassis will transcode 24x HD or 48x SD services to frame-aligned ABR profiles
- ✓ Professional technical support with market-leading capped support fees per site
- ✓ Power efficient with less than 300 W per chassis

Deliver beautiful video with a field-proven transcoding engine, validated against thousands of broadcast streams worldwide

Plan your project with confidence - Hardware transcoding provides predictable performance and consistent density



Save upfront on capital costs with the 3840 ABR's market-leading cost per stream and 'pay as you grow' licensing model

Rapid configuration and deployment with powerful VidiOS™ tools

Deployment Scenarios

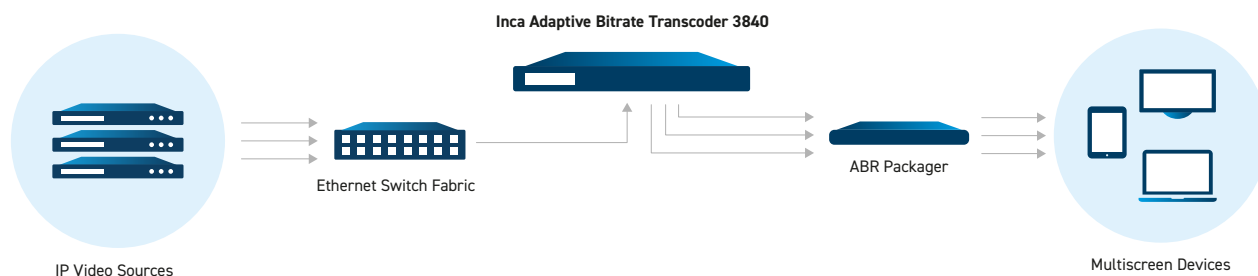
- ✓ Launch new live OTT services, eliminate set-top boxes and expand your subscriber base beyond your existing distribution network.
- ✓ Deliver IPTV services to networks where multicast delivery is not possible; for example, over leased DSL facilities.
- ✓ Transcode all local broadcast channels, including primary HD and SD subchannels for over-the-top delivery.
- ✓ Experience an extended product lifecycle with a smooth migration path to HEVC via future hardware upgrade.
- ✓ Seamless integration with Inca Multiscreen Package & Origin 5420ABR or 3rd party packagers.

Applications

- ✓ Transcode or downscale 24x HD or 48x SD programs to multiple frame-aligned ABR video streams.
- ✓ Enjoy peace of mind with intelligent redundancy options like Automatic Source Failover & N+1 Chassis Redundancy.
- ✓ Experience powerful VidiOS™ management and troubleshooting tools with inbound and outbound video thumbnails, stream capture and download, extensive statistical analysis and stream event logging.
- ✓ Enjoy full headend visibility and mosaic overview with Inca All Seeing Eye integration - monitor all ABR profiles from each source.

Professional Transcoding for ABR Applications

Up to 24x HD or 48x SD programs • Redundancy Options • 12x Transcode Processors per 1RU



Technical Specifications

Transport Stream Processing	
Inputs	SPTS/MPTS MPEG-2 Transport Stream Multicast / Unicast UDP IP
Outputs	SPTS MPEG-2 Transport Stream Multicast / Unicast UDP IP Multiple frame-aligned ABR streams per program
Input and Output Video Codecs	MPEG-2 (input only) and MPEG-4 AVC, 4:2:0 Future migration path to HEVC transcode via hardware upgrade
Transport Stream Optimizations	PID and Program Filter and Remap
Transport Modes	Constant, Peak Variable
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

Hardware Video Transcoding	
Transcode Processors	12x transcode processors per chassis • 4x transcode processors licensed with purchase • 8x additional transcode processors can be licensed at any time
Transcode Processor License	Each transcode processor can be licensed individually to transcode either: • 2x HD sources to 4x ABR profiles <i>HD outputs: max 720p30, max two downscales per source</i> • 4x SD sources to 2x ABR profiles <i>Additional profile licenses available including 1080p30 - ask your sales rep.</i>

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 Codecs	AAC-LC, HE-AAC, HE-AAC v2
Output Channels	2.0, 1.0

Management & Monitoring	
Configuration	Powerful VidiOS™ web-based user interface
Visual Mosaic Monitoring	Compatible with Inca All Seeing Eye monitoring product - All Seeing Eye probe capability included
SNMP	SNMP Trap Forwarding

Network Interfaces	
Management	1000 Base-T
Video	4x 1000 Base-T
NIC Redundancy	LACP, Active Failover, Round Robin

Intelligent Redundancy Options	
Automatic Service Failover <i>(optional, licensed per transcode)</i>	Automatic failover to backup source Automatic recovery to primary
N+1 Chassis Redundancy <i>(optional)</i>	Automatic failover to spare chassis Automatic recovery to primary chassis

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 Temperature	0 ~ 40 °C

Power	
Type	Dual redundant hot swap
Input	100 ~ 240 VAC @ 50 - 60 Hz
Power	<300 W Typical

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

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

