










HyperCast

A game-changing MXC server for the modern data center

Enhance your data center's media processing capacity and throughput with SoftIron's HyperCast MXC Server to concurrently transcode, store, and output 1000+ AV streams within a single 1U-high enclosure for multi-screen, multi-format OTT delivery.

SoftIron's HyperCast MXC Server is a game changer for today's data centers. Based on proprietary packaging technology, HyperCast delivers the most powerful and cost-efficient solution for live and file-based video processing. HyperCast offers configurable CPU, transcode acceleration, and storage to optimize cost, power, and performance for your needs. With full ABR capabilities, HyperCast is an ideal solution for Internet, Telco, Cable and Satellite video service providers.

HyperCast benefits

-  Order of magnitude lower cost per stream compared to x86 based software transcoders
-  Size and power efficiency
-  Scalable CPU performance for software features
-  Resolution flexibility; future proofing for HEVC
-  Multi-screen delivery
-  High capacity for stream storage
-  Conformance to data center infrastructure
-  High reliability
-  High availability and serviceability

Features at a glance

Hardware

1U rack enclosure

CPU:

AMD EPYC processor with up to 32 Cores

Power Supply:

Dual 850 watts redundant

Modular Design:

Hot swappable transcoder and storage modules

Streaming & data

Video Transcode Acceleration:

Up to 32 Socionext MB86M30 SOCs

Video Streams:

Up to 32 4K /128 FHD / 256 HD AVC or HEVC

Output Streams:

1000+ multi-resolution streams for ABR support

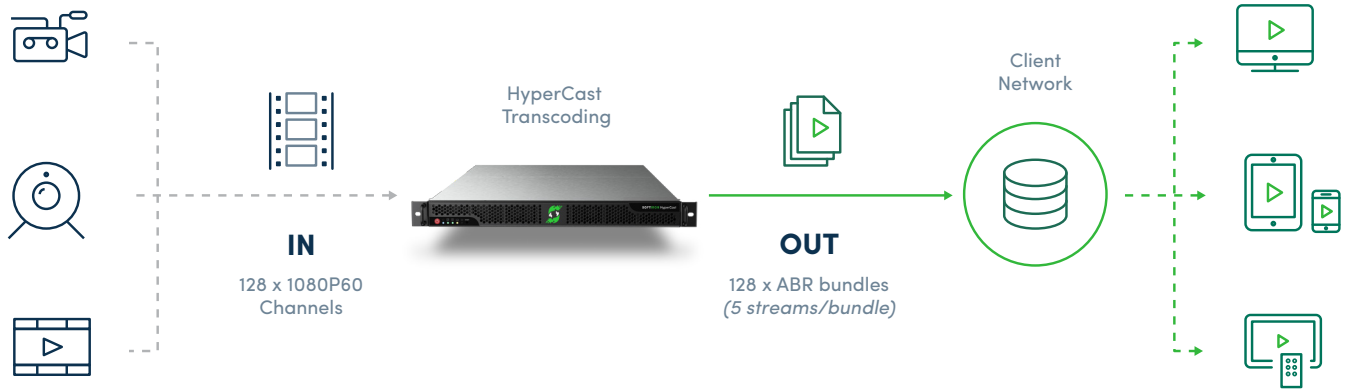
Networking:

Dual 10/25/40/50/100GbE ports

Storage:

Up to 56TB SSD / 40TB HDD





Processing Cluster

CPU	AMD EPYC x86 Server Processor
Memory	2.6GHz DDR4 DIMMs – 2TB Max
Storage	Configurable bays - 14 SSDs or 4 HDDs 56TB SSDs or 40TB HDD
I/O	Proprietary PCIe Gen3 distribution for optimized storage and media options; 128 lanes max
Network	2 Ports 25/40/50/100 GbE optional
Power	Dual 850 Watt power supplies

Physical and Electrical

Dimensions	1U, 25"/33" deep, 17" wide
Power Input	110V-240V AC
Power Consumption	<500 Watts
Cooling	Embedded fans, front to back airflow



Media Transcoder (Performance MXC)

Video Codecs	AVC and HEVC 8/10bit with HDR
Resolution	4K 60 fps max per stream
ABR	Yes
Input Protocol	MPEG-2 Transport Streams over IP
Output Protocol	MPEG-2 Transport Streams over IP
Input Streams	32 4K or 128FHD or 256 HD AVC or HEVC
Output Bundles	128 typical; max no. dependent on resolution
Video Streams/bundle	6 typical; max no. dependent on resolution
Audio Streams/bundle	2 typical

Configurable MXC Architecture

MXC model	CPU Cores	Transcoder SOCs	Storage
Streaming	16	32	None
Entry	8	8	20TB HDD
Value	16	16	40TB HDD
Performance	32	24	32TB SSD*

*up to 56TB available in custom configurations

SoftIron® makes the world's finest solutions for the data center. The company's HyperDrive™ software defined storage portfolio is built on Ceph and runs at wire speed, while HyperCast™ delivers the best density and value for real-time video streaming. SoftIron unlocks greater business value for enterprises by delivering great products without software and hardware lock-in. Learn more at softiron.com.



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