

Caton Prime

HEVC 4K Encoder and Decoder



Future-proof your content with the ultra-high quality HEVC 4K UHD video quality with Caton Prime. Experience better video quality than AVC, coupled with HDR technology for brighter highlights, deeper contrast, and lifelike colours, creating an immersive viewing experience like never before.

Experience unparalleled flexibility with Caton Prime's switchable encoding and decoding. Seamlessly adapt your inventory management and deployment to diverse needs, maximising your resources.

Unmatched reliability - Caton Prime delivers unwavering performance thanks to dual power supplies and Internet connectivity, guaranteeing uninterrupted operation. On top of that, gain access to the revolutionary Caton Media XStream, which leverages Al smart routing.

Simplify your workflow - Caton Prime integrates effortlessly with your existing infrastructure through major transport protocols like SRT, UDP, and more. More importantly, gain access to the revolutionary Caton Media XStream to leverage Al smart routing.

Perfect for multi-camera remote production, the Stream Sync feature ensures seamless synchronisation of multiple streams by precisely aligning the timing and sequencing of data packets, unleashing virtual advertising capabilities and more.

Ideal for round-the-clock mission-critical live broadcasts, live sports, and live events, Caton Prime empowers you to deliver flawless content with confidence, ensuring your broadcasts leave a lasting impression on your audience.







* CTP and SRT compatibility are license-enabled

Key Features

- High quality up to 4K60p 4:2:2
- Switchable between encoder and decoder
- Interoperable with major protocols: SRT, UDP, ASI
- Stream Sync feature for multicamera remote production
- Remote management via Caton NMS agent
- Broadcast grade with high MTBF
- Dual power supply with autofailover

2160p

1080p

HEVC High Efficiency Video Coding 4:2:0 4:2:2 HDR

AAC
Advanced Audio Coding

4ch 2 Pairs Audio NMS Caton NMS Agent



Caton Media XStream

Introducing Caton Media XStream, a revolutionary solution transforming IP broadcasting. Overcoming the open internet's unpredictability offers unparalleled reliability and performance, addressing long-standing industry challenges. The strength of Caton Media XStream lies in its distributed cloud infrastructure, bolstered by a robust network of over 100 Points of Presence and state-of-the-art AI integration. This setup ensures a resilient network that can dynamically optimise paths in real-time, reducing latency and congestion while maintaining flawless video quality. What distinguishes Caton Media XStream is its proactive network optimisation approach. Al-driven decision-making guarantees zero error, outperforming leased lines with an uptime exceeding 99.9999% and at a lower cost

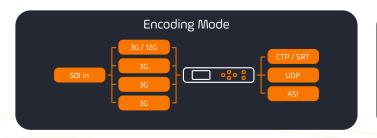


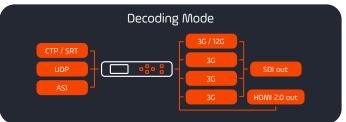
Network Performance Monitoring & Diagnostic

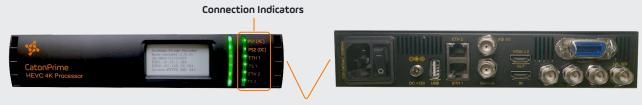
Netscope goes beyond traditional Network Performance Monitoring tools by offering real-time, in-depth diagnostics tailored to your network and individual streams. Its advanced bi-directional detection and link tracking pinpoint potential issues before disruptions, while comprehensive monitoring of performance, jitter, and latency provides second-by-second network health insights. Meanwhile, Caton Network Management System (NMS) simplifies remote orchestration and centralised management of video transmissions, software, and hardware. NMS offers consolidated data logging and reporting alongside real-time actionable alerts, streamlining troubleshooting and ensuring smooth operation. Together, Caton Netscope and NMS provide proactive management, fostering accountability and total network visibility for ultimate peace of mind.



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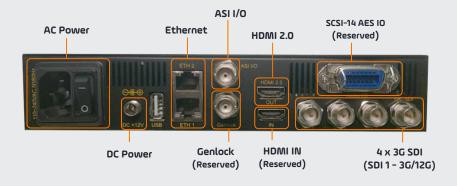






Dual Unit

Single Unit



Caton Technology is a global leader in next-generation IP transport, revolutionising media distribution with unmatched innovation and customer service. We empower broadcasters and media companies to deliver exceptional Live video over IP. Leveraging our innovative cloud platform and AI technology, Caton Media XStream ensures zero-error transmission and optimal performance, surpassing traditional delivery methods with superior Service Level Agreements at competitive costs. At Caton, quality, performance, and value coexist, enabling our customers to experience the best of all worlds.

Caton Prime | HEVC 4K Encoder and Decoder www.catontechnology.com

Video	Process (Encode and Decode)	Protocol / IO / Bitrate
Format	• UHD/4K HEVC Profile Main 10, Level 5.1 High Tier • HD HEVC Profile Main 10, Level 4.1/4.0 High Tier	CTP (license-enab
Channels	1 UHD or 1 HD	SRT (license-enab
Video Format	3840 x 2160p 50/59.94/60 (12-100 Mbps) 1920 x 1080p 23.98/24/25/29.97/30/50/59.94/60 (4-50 Mbps) 1920 x 1080i 50/59.94/60 (3-50 Mbps)	UDP ASI
Color Space	• 1280 x 720p 50/59.94/60 (2-50 Mbps) 8-bit, 10-bit, 4:2:0, 4:2:2	
HDR Mode	HLG / HDR10 / BT.2020	Size
Audio	Process (Encode and Decode)	Power
Channels	4 ch (2 pairs)	1 000001
Audio Codec	 MPEG-1 Layer (32-384 kbps) AAC-LC 32-256 Kbps Linear PCM Pass-through 1928Kbps 	Operation Temp
	Video IO	Storage Temp
		Networking
SDI	 SDI 1 = 3G/12G SDI Level A, 75Ω BNC SDI 2-4 = 3G/SDI Level A, 75Ω BNC 	
HDMI	HDMI 2.0 supports 1080p30 up to 2160p60 decode output	Relative / Operat Humidity
Audio	 SDI 1 embedded up to 4 channels encode 2 pairs HDMI embedded up to 2 channels decode out only 	Front Panel
	TS Processing	
Input / Output	ASI and Dual Ethernet ports	WebUI
PCR	De-Jittering	Protocol
Null Packet	Automatic Insertion for transmission	Firmware Updat
	Transport	Caton Network Management Syst
CTP (license-enabled)	up to 80 Mbps stream push and pull, with support for AES-256	

Protocol / IO / Bitrate	4K 12G SDI / HDMI	HD 3G-SDI / HDMI		
CTP (license-enabled)	Up to 80 Mbps	Up to 50 Mbps		
SRT (license-enabled)	Up to 80 Mbps	Up to 50 Mbps		
UDP	Up to 100 Mbps	Up to 50 Mbps		
ASI	Up to 100 Mbps	Up to 50 Mbps		
Chassis				
Size	Size 30 cm x 22.3 cm x 15cm (LWH) Height is 4.5 cm after removing the accessories			
Power	 PS1 = 100-240v AC build in power supply PS2 = 12V DC external power supply (optional) Auto Redundancy available when PS1 and PS2 plugged in 			
Operation Temp	0° to 50°C			
Storage Temp	-25°C to 65°C			
Networking	2x 1G-RJ45Unicast and Multicast ARPICMP (IPv4)IGMP (IPv4)			
Relative / Operating Humidity	<95% (non-condensing)			
Front Panel	E-Ink display for device information. Tri-colour light bar to indicate chassis health			
Management				
WebUI	Full control via WebUI			
Protocol	HTTP(s) and SNMP Caton NMS agent for orchestration			
Firmware Updates	Via WebUI			

SRT (license-enabled)

up to 80 Mbps caller and listener, with support for AES-256

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