

# Caton Prime

HEVC 4K Encoder and Decoder



Caton Prime is a powerful and versatile switchable encoder and decoder, designed for ultra-high quality HEVC 4K UHD video. The ability to switch between encoding and decoding allows users to attain the utmost flexibility in inventory management. Leveraging high dynamic range (HDR) video technology to elevate image realism, content is delivered with brighter highlights, better contrast and deeper, more lifelike realistic colours, assuring a visually impactful viewing experience. Built with Caton Transport Protocols (CTP) for the highest quality and reliability to distribute ultra-low latency live video securely over any private network and the internet, interoperable with major industry protocols including SRT.

Caton Prime is designed with unmatched reliability for round-the-clock mission-critical live broadcast, making it ideal for telemedicine, remote production, enterprise and critical infrastructure sector's applications.







\* CTP and SRT compatibility

## **Key Features**

- High quality up to 4K60p 4:2:2
- Switchable between encoder and decoder
- Reliable & Secure IP transmission with CTP
- 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
High Dynamic Range

AAC

4ch

NMS Caton NMS Agent



# Caton Transport Protocols (CTP) for Superior Video Transmission

Caton Transport Protocols (CTP) comprise of our IP transmission technologies that assures stability, quality and security for video, media and other data transmissions. With over 30 in-built algorithms, CTP leverages machine and deep learning approaches that work to smooth and mitigate network challenges. This is coupled with our patented dynamic error corrections to recover from data loss.

Our customers use CTP to enable high quality, low latency live video to be distributed at scale over any IP network, making it the ideal technology for live streaming of high value content where quality, security and real connections matter. Beyond video, enterprises and service providers are leveraging CTP for fast file and data transfer, enjoying accelerated transmission speeds that are significantly faster than traditional solutions. In addition, Caton Prime supports CTP Multipathing for higher resilience..



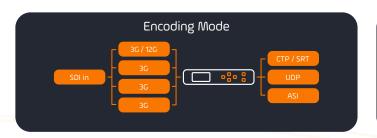
### CatonNet Video Platform (CVP)

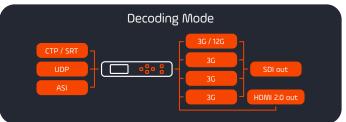
CatonNet Video Platform (CVP), powered by Caton Transport Protocols, provides broadcast grade media transmission services. CVP is designed as a highly available, low latency and secure service ensuring your video can be transmitted and received without compromising on quality, security or speed. With a point of presence in over 60 countries worldwide, some of the largest content creators, broadcasters, satellite operators and service providers are using this fully managed end-to-end service with up to 99.999% stream availability to securely deliver superior video to their customers locally, regionally and globally. All while enjoying significant cost savings compared to traditional network services.



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Removable Desktop Stands



Dual Unit

Single Unit



Caton Technology is an industry leader in next-generation IP network transport solutions. Powered by technology and driven to innovate, we improve how businesses around the world and across multiple industries stream live media in the highest quality, distribute video and move data over any IP network faster and more securely—enabling new deployment possibilities while reducing costs. Headquartered in Singapore, with regional offices in Shanghai, Beijing, California, Hong Kong, Taipei and Tokyo, Caton Technology is poised to connect the world with high-quality real-time interactions between people, things and everywhere in between. The best connections are created with Caton. For more information, please visit www.catontechnology.com.

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#### Protocol / HD **4K** Video Process (Encode and Decode) IO / Bitrate 3G-SDI / HDMI 12G SDI / HDMI • UHD/4K HEVC Profile Main 10, Level 5.1 High Tier Format CTP (license-enabled) Up to 50 Mbps Up to 80 Mbps • HD HEVC Profile Main 10, Level 4.1/4.0 High Tier Channels 1 UHD or 1 HD SRT (license-enabled) Up to 50 Mbps Up to 80 Mbps 3840 x 2160p 50/59.94/60 (12-100 Mbps) UDP Up to 50 Mbps Up to 100 Mbps • 1920 x 1080p 23.98/24/25/29.97/30/50/59.94/60 (4-50 Mbps) Video Format 1920 x 1080i 50/59.94/60 (3-50 Mbps) ASI Up to 50 Mbps Up to 100 Mbps • 1280 x 720p 50/59.94/60 (2-50 Mbps) Chassis Color Space 8-bit, 10-bit, 4:2:0, 4:2:2 30 cm x 22.3 cm x 15cm (LWH) Size HDR Mode HLG / HDR10 / BT.2020 Height is 4.5 cm after removing the accessories • PS1 = 100-240v AC build in power supply Audio Process (Encode and Decode) PS2 = 12V DC external power supply (optional) Power Auto Redundancy available when PS1 and PS2 Channels 4 ch (2 pairs) plugged in 0° to 50°C Operation Temp MPEG-1 Layer (32-384 kbps) Audio Codec AAC-LC 32-256 Kbps • Linear PCM Pass-through 1928Kbps Storage Temp -25°C to 65°C • 2x 1G-RJ45 Video IO Unicast and Multicast ARP Networking · ICMP (IPv4) SDI 1 = 3G/12G SDI Level A, 75Ω BNC SDI · IGMP (IPv4) • SDI 2-4 = 3G/SDI Level A, $75\Omega$ BNC HDMI 2.0 supports 1080p30 up to 2160p60 Relative / Operating HDMI <95% (non-condensing) decode output Humidity SDI 1 embedded up to 4 channels E-Ink display for device information. encode 2 pairs Front Panel Tri-colour light bar to indicate chassis health **Audio** · HDMI embedded up to 2 channels decode out only Management TS Processing WebUI Full control via WebUI Input / Output ASI and Dual Ethernet ports · HTTP(s) and SNMP Protocol Caton NMS agent for orchestration **PCR** De-Jittering Firmware Updates Via WebUI Automatic Insertion for transmission Null Packet Caton Network Licence-enabled service through integrated Caton NMS agent Management System Transport up to 80 Mbps stream push and pull, with sup-CTP (license-enabled) port for AES-256

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for AES-256

up to 80 Mbps caller and listener, with support

SRT (license-enabled)