



ALPHAOTT VIDEO CODER CARRIER GRADE VIDEO STREAMING HARDWARE



48 Full HD Channels 120 Watts

Multi-bitrate, AVC or HEVC



Broadcasting & Streaming

Ideal for telecom, cable operators, ISPs, and broadcasting and streaming services



Cost-Effective

A cost-effective solution that does not compromise functionality and energy efficiency



Predictable Density

Coder offers a predictable density and can be guaranteed to process a specified number of channels



Cutting-edge GPUs

Enabling 1 RU servers to simultaneously transcode up to 48 FULL HD programmes in multi bitrate streams for adaptive streaming

End-to-End Video Delivery Solution

Our AlphaOTT Video Coder is a modular multi-format and multi-protocol transcoder, packager, and origin server with a consistent, high density channel count independent of input or output encoding formats and protocols.

The AlphaOTT Video Coder simultaneously transcodes dozens of 4K, FullHD, and SD channels; as well as converting formats, and protecting, archiving and delivering video streams. Our Video Coder is built on the AlphaOTT Media Server platform.

AlphaOTT Middleware

(CMS) Software allows operators (ISP, Telco) to take complete control of the user data and content data to manage the business with full power.

Our Middleware is the most efficient solution for the management of content and user data in your IPTV deployment, allowing ISP, Operator, Cable Operators, Hospitality, Hospital, Residential, Church, Coporate, Government, Maritime, and Campus to advance IPTV management with the maximum quality and reliability.

Protocols & Formats support

- MPEG TS Ingest - SPTS, MPTS, Data PID Passthrough
- MPEG TS Monitoring - TRI01 290
- MPEG TS electronic program guide - EPG EIT
- MPEG TS advertising - SCTE35
- MPEG TS constant bitrate output - PCR accurate CBR NULL Pid Stuffing
- Video resolutions - From 188i to 2160p (4k)
- Frame rates - From 1 to 120 FPS
- Streaming protocols - RTSP, RTMP, HLS, MPEG-DASH, Microsoft Smooth Streaming, WebRTC, MSE-LD, M4S, M4F
- WebRTC models - Playback and publish streams over UDP and TCP transports
- MPEG DASH features - Gap handling, CDN-Compatible playout, Subtitles, and Closed Captions support
- VOD delivery - MP4, MKV
- DRM support - DASH Widevine, HLS Fairplay, MSS Playready, Plain AES-128, Plain CAS (tokens)
- Supported cloud DRM vendors - Conax DRM, BuyDRM (KeyOS), PallyCon, EzDRM

Video Archive support

- Archive access protocols - HLS, DASH, MSS, RTMP, RTSM, MSE-LD, HTTP MPEG-TS protocols
- Granularity - Segment
- DVR mode - Endless tape
- MP4 export
- Scheduled recording
- Timeshift - Session, Stream
- Cloud storage support - Amazon S3, Openstack Storage (swift)
- Source replication
- Application RAID

Redundancy

- Stream ingest failover - Automatic recovery to primary source, user configurable parameters and duration thresholds
- Video cluster load balancing
- Redundant PSU
- Independent transcoding modules

Interfaces (Input-Output)

- Management interface - 1000 Base-T
- Video Input/Output - 4, 8, 16 x 1000 Base-T NIC
- Serial interface - RS-232 console port
- SDI - 4 SDI ports (optional)

Physical dimensions

- Mounting - 19", 2 or 4 Post Rack, 1 RU
- (WxDxH) - 438 x 525 x 44 mm
- Weight - 15 kg

Regulatory compliance

- Approvals and compliance - RoHS, CE/FCC class A, UL
- EMC standards - FCC Part 15 Class A
- Safety standarts - CSA/UL 60950-1

Transcoding & Video processing

- Video codecs - Mpeg2, H.264/AVC, H.265/HEVC
- Audio codecs - AAC, AC3, opus, MP3, MPEG2 Audio, PCMA/PCMU, E-AC3
- Video processing - Transcoding, Transrating, Scaling/Re-Sizing, Transmuxing
- Logo insertion
- Mosaic generation
- DVB subtitles conversion to WebVTT
- Ads insertion

Broadcast multiscreen specification

- Full HD - 48 output multi-bitrate streams
- HD - 72 output multi-bitrate streams
- SD - 144 output multi-bitrate streams

CDN Support

- Push protocols - HLS push, RTMP push, UDP multicast retransmit
- Akamai HLS-Push
- Otter Video cluster support
- Otter Video cluster ingest
- Peer redirection
- Transparent cluster
- DVR access

Management

- User friendly Web-UI
- Video Catena centralized management system
- 2 x 20 Character LCM, 4 x Keypads
- Event Handler Callbacks
- HTTP API
- SNMP

Power

- Input - AC 90V-264V @47-63Hz
- Power supply - 300W 1+1 ATX Redundant PSUs
- Typical power consumption - 120 watt

Ordering information

- Video Coder 1840A - 4x 1000 Base-T NIC, 48 fHD mbr channels transcode
- Video Coder 1880A - 8x 1000 Base-T NIC, 48 fHD mbr channels transcode
- Video Coder 18160A - 16x 1000 Base-T NIC, 48 fHD mbr channels transcode
- Video Coder 1144A - 4x 1000 Base-T NIC, 6 fHD mbr channels transcode, 4 SDI fHD channels encode
- Video Coder 1288A - 4x 1000 Base-T NIC, 12 fHD mbr channels transcode, 8 SDI fHD channels encode
- Video Coder 131612A - 16x 1000 Base-T NIC, 18 fHD mbr channels transcode, 12 SDI fHD channels encode
- Video Coder 141616A - 16x 1000 Base-T NIC, 24 fHD mbr channels transcode, 16 SDI fHD channels encode

**For pricing and demo
please contact our
sales department**