

# Ascentac Xcoder

**Ascentac Xcoder** is a high-performance, software-based media processing solution that seamlessly integrates real-time stream encoding and transcoding within a single, unified platform. Engineered for broadcast television, cable TV, IPTV, and OTT streaming services. Ascentac Xcoder supports a wide range of video and audio input/output formats and is fully compatible with industry-standard codecs, including MPEG-2, AVC (H.264), and HEVC (H.265), with resolutions up to 4K. Its support for adaptive bitrate streaming technologies such as HLS and MPEG-DASH ensures smooth, high-quality playback on a wide range of end-user devices. Real-time multiplexing and optimized processing workflows further enhance channel aggregation and maximize bandwidth efficiency.

Built with high availability and scalable architecture, Ascentac Xcoder provides exceptional deployment flexibility. It can operate as a software-defined appliance on-premises using standard servers or high-performance computing platforms, with dynamic allocation of system resources based on channel count and resolution requirements. Ideal for major broadcasters, OTT service providers, and enterprise media applications, Ascentac Xcoder delivers a stable, real-time, and end-to-end media processing solution that meets the highest professional standards.

## Features

- Support Input: MPEG-2 T.S, RTMP, RTMPS, SRT
- Support Output: MPEG-2 T.S, RTMP, RTMPS, SRT, HLS, DASH, LL-HLS, LL-DASH
- Video Codecs: HEVC (H.265) , AVC (H.264) , MPEG-2• AV-1
- Audio Codecs: MPEG-1 layer II• Dolby Atmos • Dolby Digital (AC-3) • Dolby Digital Plus (EAC-3)
- Video Resolutions: SD, HD, 4K
- Protections: Verimatrix, Widevine, Fairplay, AES-128/192/256
- Operations: Image Insertion/Overlay, Scrolling Text, Black-Out Management, AD Insertion(SCTE-104 & SCTE-35) , Loudness Control
- Redundancy: 1+N, N+M



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