



# AW9300 Encoder+



**(ENCODER / SIGNALING SERVER)**

## Introduction

The Anywave AW9300 ATSC 3.0 Encoder / Signaling Server integrates a robust encoding system in a flexible architecture that encapsulates and sends ROUTE / MMTP. With the addition of Anywave's new ATSC 3.0 Exciter and ATSC 3.0 Gateway, this powerful platform provides a complete ATSC 3.0 solution to meet all of the Broadcaster's NextgenTV needs. With options on the exciter and gateway for built-in tuners and MUX add/drop capability, this platform is the perfect solution for lighthouse arrangements with LPTV and Translators. The Anywave AW9300 is a professional grade ATSC 3.0 / MPEG-2 TS encoder that encodes UHD1 (2160p) video as well as multiple HD/FHD videos with TS, ROUTE or MMTP streams or DASH/MPU output. This encoder also encodes MPEG-2, AVC and HEVC (SD, HD and UHD @60P) video and Dolby Digital, Dolby AC-4 and MPEG-H audio.

## Key Features

- ✓ Easily implement and operate new ATSC 3.0 services in a variety of network configurations
- ✓ ATSC 1.0 (MPEG-2 and AVC, plus AC-3 audio) compatible – use for ATSC 1.0 now, ATSC 3.0 later
- ✓ Flexible architecture allows Broadcasters to implement studio / transmitter integrated or split architectures
- ✓ Multi-format output support - ROUTE/MMTP (with ESG), WebDAV, MPEG-2 TS (with PSIP)
- ✓ Supports closed caption (IMSC1)
- ✓ Supported Codecs include MPEG-2 video, AVC, HEVC (up to single UHD @60p, four FHD @ 60p or eight HD/SD), and Dolby Digital (AC-3), AC-4, AAC, MPEG-H
- ✓ HDR, WCG Support
- ✓ SDI input options - 12G-SDI/Quad 3G-SDI, 4x3G-SDI, 8xHD-SDI/SD-SDI
- ✓ ROUTE delivery of MPEG DASH Segments
- ✓ MMTP delivery of MPU Segments
- ✓ ROUTE delivery of Electronic Service Guide (ESG)
- ✓ ROUTE delivery of Emergency Alert Information
- ✓ Hot-swappable Redundant Power Supply
- ✓ 1RU 19-inch rack mountable type
- ✓ Enhanced Signaling Server Features (ATSC3.0) - LLS/SLS Generation, ESG Metadata Processing, NRT delivery, LLS/SLS signing

# Specifications

## Input

TS over IP	UDP, RTP
SDI	1x 12G-SDI, Quad 3G-SDI, 4x independent 3G-SDI, 8x independent HD/SD-SDI
Supported Format	3840x2160p@59.94/50/29.97/25Hz 1920x1080p@59.94/50/29.97/25Hz 1920x1080i@59.94/50Hz 1280x720p@59.94/50Hz 720x480p@59.94Hz, 720x576p@50Hz 720x480i@59.94Hz, 720x576i@50Hz

## Output

MPEG-2 TS	1x UDP/RTP With PSIP
ATSC 3.0	WebDAV, HTTP PUT LLS+ROUTE/MMTP with ESG

## Encoder

Video	H.265 (HEVC) Main/Main10 Profile, Level 5.1 H.264 Main/High Profile, Level 4.2 MPEG-2 MP@HL
Audio	MPEG-2 AAC MPEG-H 3D Audio Dolby Digital, AC-4

## Miscellaneous

Functions	Logo Insertion Text scroll Widevine DRM (ATSC 3.0) HLG, HDR10
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## Connectivity

SDI	8x 75-Ω micro BNC F (Input)
Frame Sync	1x 75-Ω micro BNC F (Gen-Lock In)
Network Streaming	1x RJ45 10Gigabit Ethernet LAN ports
USB	2x USB 2.0 and 2x USB3.0 ports
Video Output	1x VGA port
UART	1x RS-232
Time Synchronization	NTP/PTP

## Front Input / Output

Display	Power status
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## Management

System Management	Via RJ45 Ethernet LAN port
Monitoring system	Via IPMI LAN port
Health status	

## Power Supply

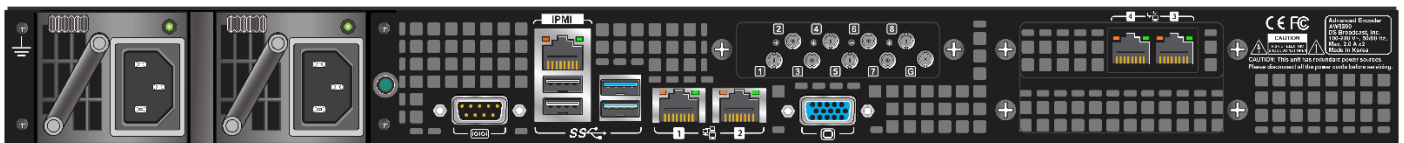
Power Supply	Hot-swappable 400W + 400W Redundant Power Supply
Input Voltage Range	90-264 VAC
Input Frequency Range	47-63 Hz
Power Consumption	Up to 160W

## Physical Dimension

Size (W x D x H)	17.28 in x 18.70 in x 1.73 in (1 RU)
Weight (net)	11.0 Kg (24.3 lbs)

## Accessories

Gender Cable	9x micro BNC M to BNC F Cable
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