



# THE COMPLETE ATSC 3.0/1.0 SIGNAL CHAIN ALL FROM ANYWAVE!

**ATSC 3.0/1.0  
ENCODER &  
SIGNALING  
SERVER**

**ATSC 3.0/1.0  
EXCITER &  
TRANSLATOR**



**BUILT-IN  
GATEWAY  
OPTION OR  
STANDALONE  
GATEWAY**

**WITH EDITING OF  
SIGNALING  
INFORMATION &  
STREAM SYNC**

ONE PLATFORM for ATSC 3.0/1.0

## Introduction

Experience a groundbreaking leap in digital signal transmission with the all-encompassing ATSC 3.0/1.0 signal chain by Anywave. Redefining industry standards, our cutting-edge solution combines the power-packed Anywave AW9300 Encoder+ and the innovative Anywave AW9200 Exciter+ all compactly housed within two sleek 1RU units. Elevate your broadcasting capabilities and embrace the future of unparalleled performance.



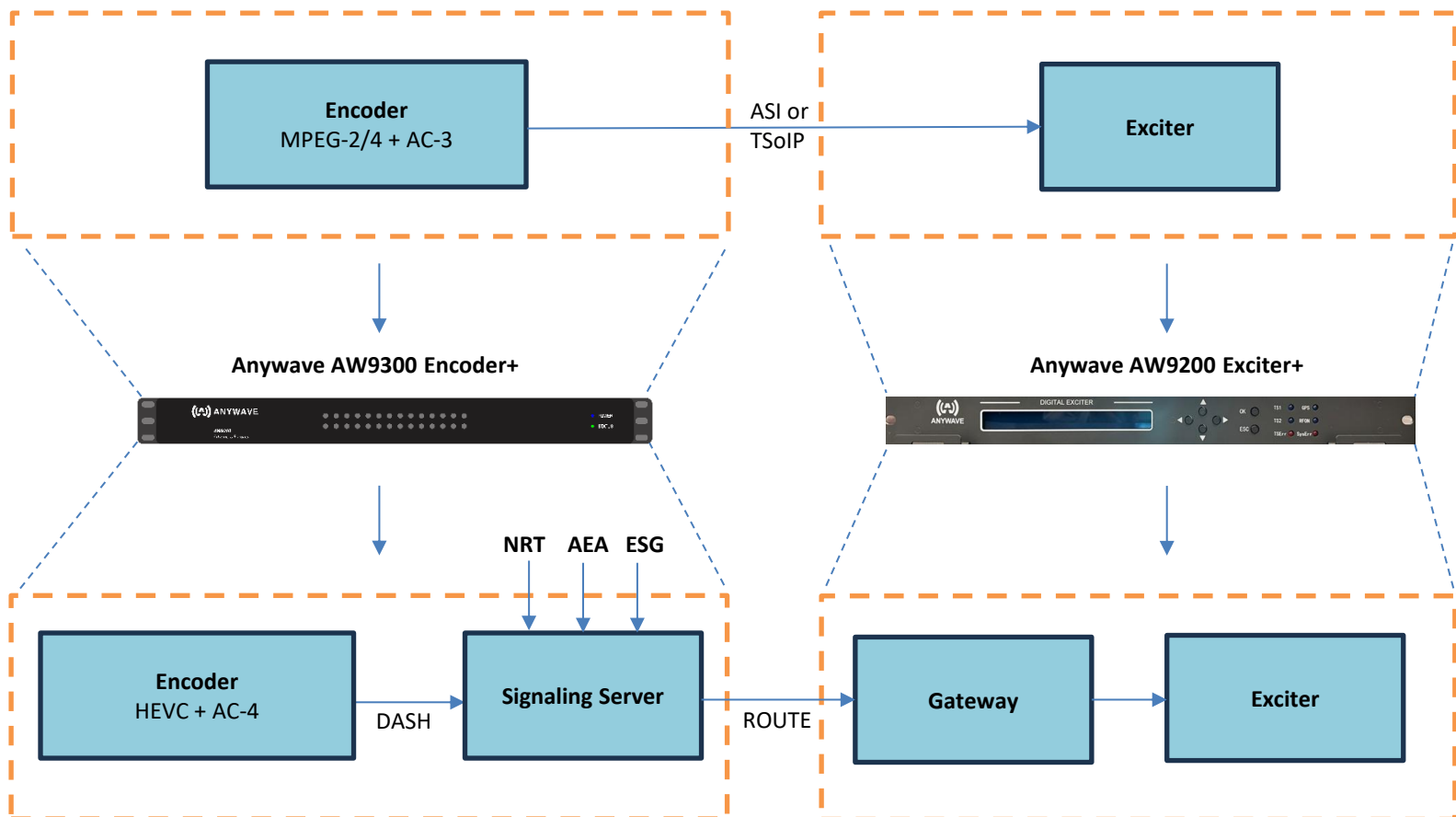
## Key Features

- ✓ Complete end-to-end ATSC 3.0/1.0 solution in one hardware platform
- ✓ Supports ATSC 3.0/1.0 standards, with dual mode operation
- ✓ Deploy ATSC 1.0 now and switch to ATSC 3.0 later with a simple license key
- ✓ Flexible architecture allows broadcasters to implement studio/transmitter integrated or split configurations - Ideal for LPTV Stations where all of the equipment is located at the transmitter site - optional configurations include a standalone gateway for stations with separate studio and transmitter sites
- ✓ The Anywave AW9300 Encoder+ provides ATSC 3.0/1.0 coding and signaling server functionality in 1RU module
- ✓ The Anywave AW9200 Exciter+ operates as an ATSC 3.0/1.0 exciter, an ATSC 3.0/1.0 translator, or as an ATSC 3.0 exciter with built-in gateway in 1RU module
- ✓ The Signaling Information Editing and PSIP option in the Anywave AW9200 Exciter+ modifies signaling information including BSID/TSID, service name, major/minor channel number, etc. – without the need for an additional gateway
- ✓ Implements STREAM SYNC technology – eliminating the need for GPS or NTP equipment synchronization for non SFN operation
- ✓ Remote monitoring and control via web browser and SNMP

# General Overview

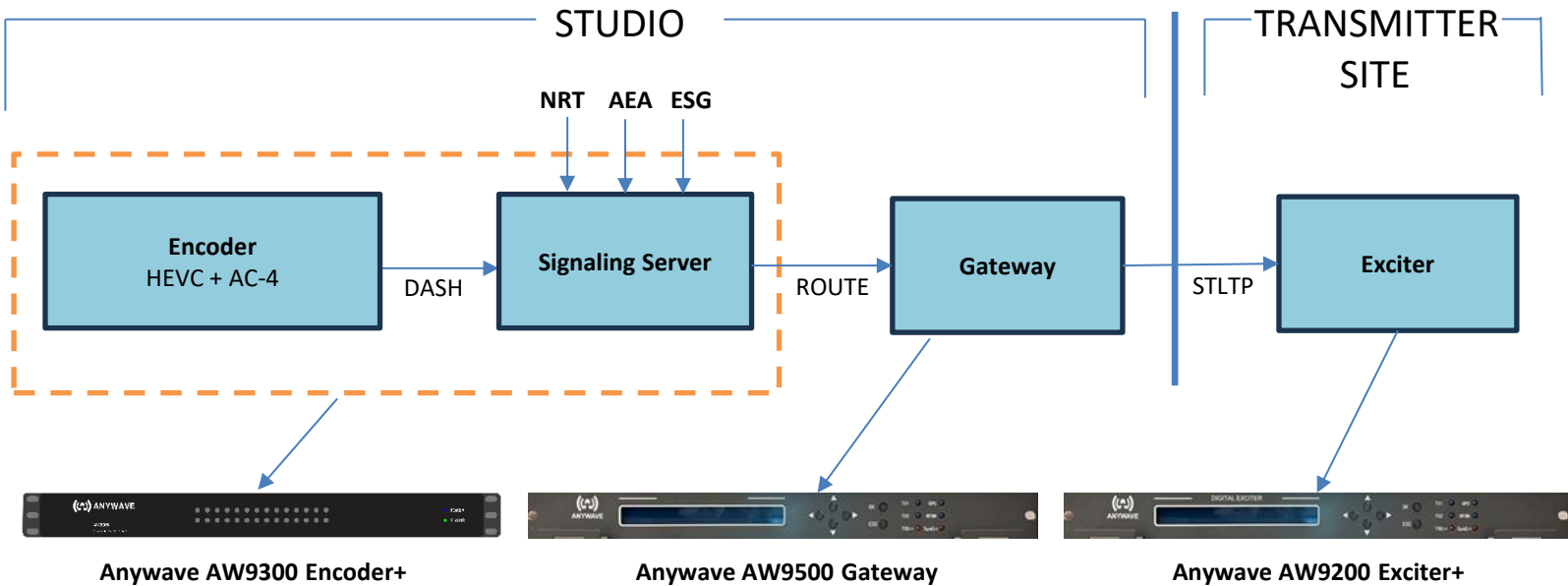
The versatility of the Anywave AW9300 Encoder+ combined with the Anywave AW9200 Exciter+ allows the broadcaster to deploy ATSC 1.0 now and switch to ATSC 3.0 later (via a license key), using the same hardware. A typical LPTV implementation is shown below where all of the equipment is located at the transmitter site.

## ATSC 1.0 NOW



## ATSC 3.0 LATER

A typical full Service ATSC 3.0 implementation is shown below for stations with separate studio and transmitter sites.



### **Anywave AW9300 Encoder+**

The Anywave AW9300 Encoder+ functions as an advanced ATSC 3.0/1.0 encoder platform, boasting numerous essential features. It supports HEVC video coding and AC-4 audio coding for ATSC 3.0 operation while offering MPEG-2 and MPEG-4 (also known as AVC or H.264) video coding and AC-3 audio coding for ATSC 1.0 operation. This versatile module includes logo insertion, scrolling text, statmux, up to 8 SDI inputs or IP inputs. The Anywave AW9300 Encoder+ supports ATSC 3.0 Signaling Information and ATSC 1.0 static and dynamic PSIP.

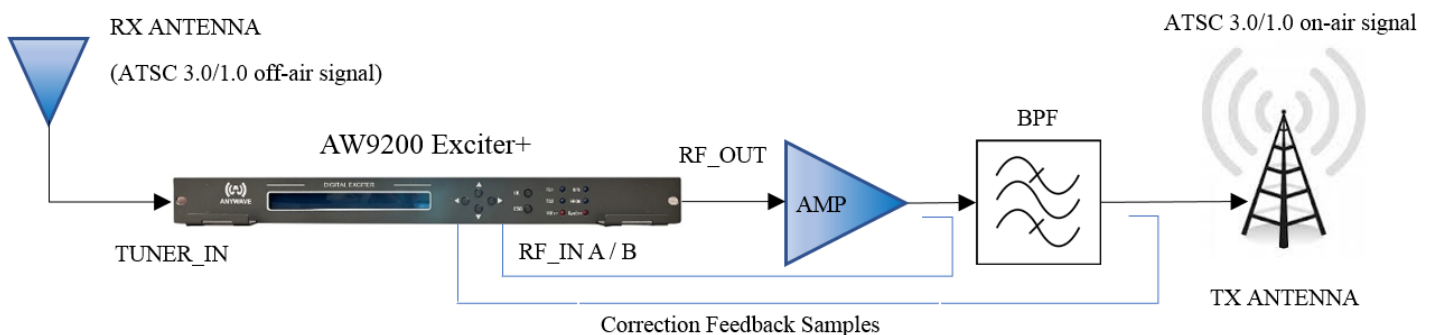
The Anywave AW9300 Encoder+ also provides a signaling server option that can accept various sources like NRT, AEA, or ESG, and outputs ROUTE data - all consolidated into a single 1RU module.

### **Anywave AW9200 Exciter+**

The Anywave AW9200 Exciter+ serves as a unique platform, providing an ATSC 3.0/1.0 exciter with superior adaptive correction and signal quality. In addition to standout features such as Signaling Information Editing, the Anywave AW9200 Exciter+ incorporates STREAM SYNC technology, enabling seamless bit rate adaptation between the gateway and the exciter without requiring a GPS or NTP time reference for non SFN operation. This not only reduces costs but also ensures easy installation and reliable operation, making it a broadcaster-friendly choice.

### **Anywave AW9200 Exciter+ (Translator option)**

The Anywave AW9200 Exciter+ also acts as an innovative ATSC 3.0/1.0 translator, capable of receiving and transmitting ATSC 3.0/1.0 RF signals. Notably, with the unique Signaling Information Editing and PSIP options, it modifies signaling information directly at the translator site, saving time, effort, and unnecessary expenses associated with additional gateways. The diagram below shows the Anywave AW9200 Exciter+ operating as an ATSC 3.0/1.0 translator with Signaling Information/PSIP Editing.



### **Anywave AW9200 Exciter+ (Gateway option)**

For an even more tailored experience, the Anywave AW9200 Exciter+ offers a gateway option, a unique feature in an exciter platform. This option seamlessly accepts ROUTE input, providing enhanced flexibility in content sourcing.

### **Anywave AW9500 Gateway**

Additionally, Anywave offers a standalone ATSC 3.0 gateway product - a solution compliant with industry standards. This versatile product receives multiple off air ATSC 3.0 channels and ROUTE data, provides for program cherry picking, and outputs STLTP data to the ATSC 3.0 exciter, ensuring seamless integration into diverse broadcasting setups.

Choose the Anywave AW9200 Exciter+ platform for integrated functionality or opt for the standalone Anywave AW9500 Gateway for a standardized, independent solution. The power is in your hands.

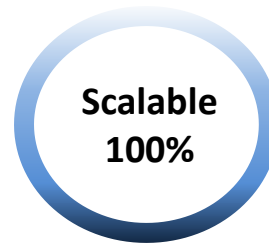
### Anywave Complete Solution

Both the Anywave AW9300 Encoder+ and the Anywave AW9200 Exciter+ are precision-engineered to meet the stringent demands of ATSC 3.0/1.0 broadcasting. To complement the signal chain, Anywave provides a comprehensive range of power amplifiers at various frequencies and power levels, including the ultra-compact up to 1.3 kW (ATSC 3.0)/2 kW (ATSC 1.0) UHF Marble series transmitter, as depicted below. Its compact design and robust capabilities make it an ideal choice for broadcasters seeking operational optimization without compromising quality.



**Anywave Marble series 1.3 kW (ATSC 3.0)/2 kW (ATSC 1.0) UHF transmitter  
with AW9300 Encoder+ and AW9200 Exciter+**

Anywave has the most complete and powerful ATSC 3.0/1.0 product line in the industry. Contact us for details about how we can make things work for you!



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