



Audemat RDS Encoder

Highest Signal Purity & Quality

Innovative and feature-packed, the Audemat RDS Encoder elevates RDS encoding to a level of signal quality and spectral purity never before achieved.

After the worldwide success of the Audemat FMB80 RDS encoder, this new, more advanced version is a worthy successor that will meet the needs of the most demanding broadcasters and stations for modern RDS encoding.

It meets the highest standards of excellence and is the first and only RDS encoder to meet the latest norms, a built-in

FM tuner, and MPX/Composite over AES. With its MPX over AES compatibility, the Audemat RDS Encoder enables the addition of RDS information directly into a digital chain, ensuring not only optimal spectral purity and quality but also enables broadcasters to pass seamlessly to a fully digital environment.



Audemat RDS Encoder Benefits:



Market Leading Expertise

Highly involved in advancing radio solutions and as an active member of the RDS forum, WorldCast Systems meets the highest standards of excellence backed by over 25 years of field-proven experience.



Highest Signal Purity

With the Audemat RDS Encoder and its built-in digital MPX over AES feature, a new level of signal quality is available to improve the entire broadcast chain.



Easy Installation & Maintenance

For maximum ease of use, the Audemat RDS Encoder comes with a built-in FM tuner for on-air monitoring of RDS information, ScriptEasy for advanced telemetry, and a responsive web interface.



Market-Leading EXPERTISE

+25 years of RDS experience: Our team of engineers leverage extensive experience in RDS encoding with successful, field-proven, and highly reliable systems deployed worldwide with over 17 000+ FMB80's sold.

IEC62106 compliant: The only RDS encoder that meets the new RDS standard and full UECP compliancy.

RDS2 Ready: According to the latest IEC standard the Audemat RDS Encoder is ready for the RDS2 meaning that three additional subcarriers can be added to broadcast logos or pictures.

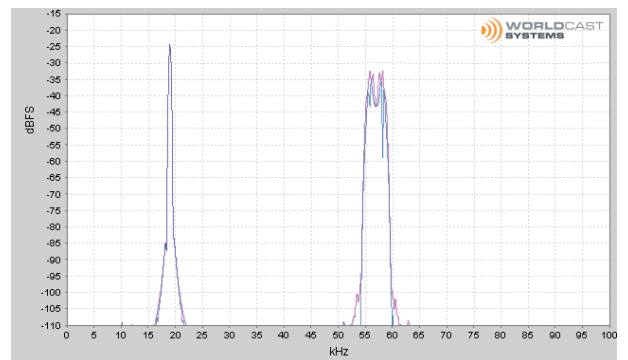


Highest Signal PURITY

MPX over AES: Only encoder to offer this feature, the Audemat RDS Encoder allow you to have a full digital broadcast chain with digital MPX/Composite.

Digital Signal Generation: As part of an ongoing drive for improvement, signal output has been improved to achieve a floor noise below -80dBm in analogic mode and -110 dBm with digital.

Signal Purity: Great signal management enables high signal purity at the encoder's output without any disturbance on the audio content.



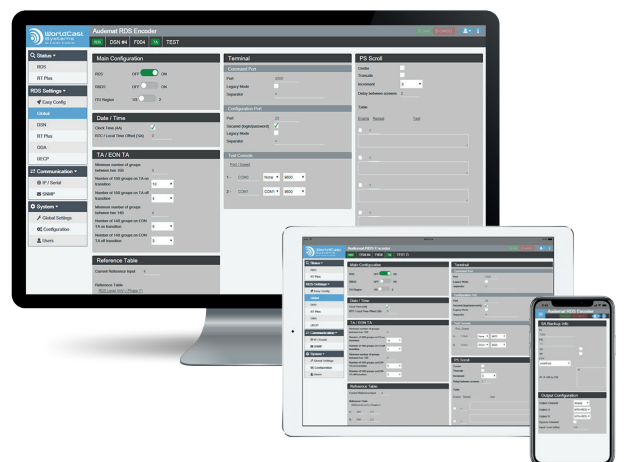
MPX / Composite over AES

EASY Installation & Maintenance

Built-in FM Tuner: Built-in FM tuner for on-air monitoring of main RDS parameters and signal, using a single product.

Advanced communication:

- Responsive web GUI with complete configuration
- ScriptEasy & MasterView for advanced telemetry and facility management
- SNMP
- Compatibility with the WorldCast Manager for unified monitoring of IP-enabled devices
- UECP
- ASCII Commands



Advanced Telemetry & Facility Management

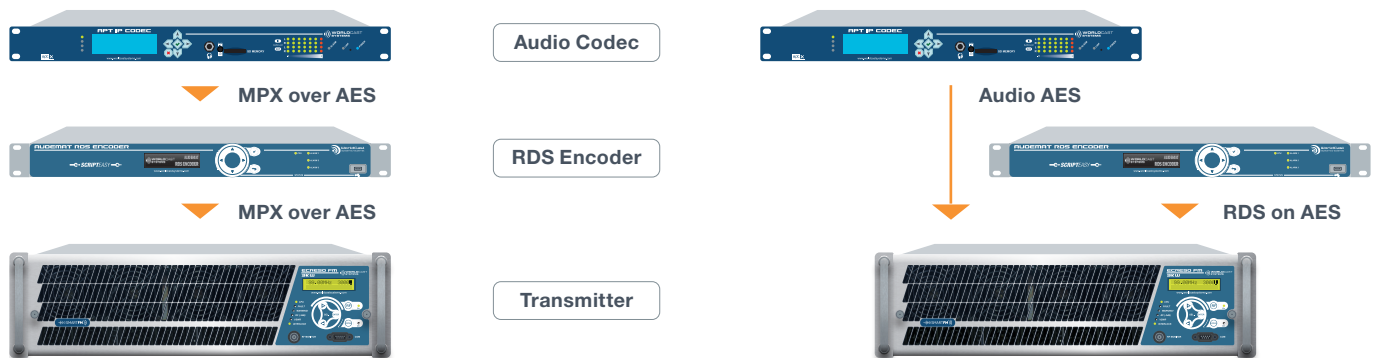
ScriptEasy is a revolutionary facility control software for connected devices, enabling the automatic correction of any critical errors that may occur. Across its intuitive web interface, ScriptEasy includes management of the GPIO, serial communications, SNMP, logic operators, live user inputs, timers, and more. This enables the “scripting” of site operations for evaluating multiple parameters and automatically engaging back up systems, while simultaneously alerting relevant technical personnel. **Integrated in the Audemat RDS Encoder, ScriptEasy is the core technology used for the product's telemetry input-outputs.**



- Identify the station
- Automatically retune between transmitters of the same program
- Display song titles and artist information on receivers
- Traffic Announcements
- Interactive radio (RT+)
- Future applications (ODA application)
- Traffic Message Channel
- Emergency Warning System

Application example using MPX / Composite over AES

with range of WorldCast Systems products illustrating complete digital broadcast chain:



RDS2

RDS2 is characterized by adding 3 additional subcarriers in the RDS standard, broadcasters will have the possibility tomorrow to send small files such as a station logo or the cover of an album. This feature is part of one of several improvements to the standard, such as a new type of PS that allows UTF8 encoding of desired characters. RDS2 opens opportunities for stations branding, new revenue streams through advertising, and a better overall user experience for listeners.





Rear panel

AUDEMAT RDS ENCODER

STANDARD	IEC62106-2018
RDS FEATURES	
RDS2	✓
Group supported	Full RDS Encoder From 0A/B to 15A/B
Group sequence	Configurable
DSN	10
PSN	10 by DSN
PI - PS - RT	✓
AF	Method A & B
TP / TA	✓
PTY	✓
PTYN	✓
CT	✓ (Sync by NTP)
EON	10 PSN
ODA	✓
TMC	✓
RT+	✓
Dynamic PS / RT	✓
Scrolling PS	✓
Sequencing speed	✓
Scrolling by character	✓
Scrolling by word, 8-character block, automatic centering, truncate	✓
Repeating, Labelling, Delay before display	✓
MANAGEMENT	
GUI	Responsive WEB GUI
Scheduler	ScriptEasy & MasterView
UECP	✓
ASCII Command	✓
Connection with automation software	5 UDP / 5 TCP
UECP/ASCII command debug tool	✓
SNMP	✓
Front panel display	✓
Integrated FM Tuner	✓
Built-in RDS Decoder	✓
Interfaces	
Pilot/MPX Input - Analogic	1
MPX/RDS Output - Analogic	2
Pilot/MPX Input - Digital MPX	1
MPX/RDS Output - Digital MPX	2
Synchronization	✓
RDS Level / Phase adjustment	✓
Side Chain Mode, Loop through mode, Bypass feature	By software on each output
Telemetry	Including ScriptEasy Software
Relays	8 - SPDT 5A -50/+50V
Digital inputs	16 - Internal or external power supply
Metering inputs	4 - 0-50V (4 ranges-ADC:12 bits)
Screen	1 - OLED type
LED indicators	4 - for alarm status and CPU operation
LAN ports	2 - RJ45 ports Base-T 10/100/1000M
Alimentation	1 - IEC type

MAIN characteristics	
Dimensions (l x h x d)	483(19") x 42 (1U) x 180mm
Weight	2.35 kg
Main power supply	100-240VAC / 50-60 Hz
Power consumption	25 VA
Temperature Working temperatures Storage	0°C - +50°C -30°C - +80°C
Humidity	10-95% Non-condensing RH

Order information

REF	DESCRIPTION
TF01070	AUDEMAT RDS ENCODER
SP02563	FM Tuner
CD00064	ScriptEasy extension to manage 10 additional SNMP devices (1 license included by default)

This document is not contractual.
All specifications are subject to change without notice.

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