



SmartGen 4.1

UECP COMPATIBLE RDS/RBDS ENCODER WITH LAN & USB CONNECTIVITY

The SmartGen 4.1 is a full-function RDS/RBDS encoder that supports both of European CENELEC and United States NRSC standards. It supports all service IDs and offers simultaneous scrolling-PS and RadioText messaging. SmartGen 4.1 is fully compatible with the latest UECP EBU SPB490 Version 7.05. The interactive function RT+ for song tagging is fully supported without a compromise. Based on the latest RDS technology, the SmartGen 4.1 is fully digital design for 24/7/365 operation. The SmartGen 4.1 is the most cost effective solution for sending TMC and EWS Services.

SmartGen 4.1 gives dynamic, on-the-fly programming access with its built-in USB, TCP/IP, UDP/IP interfaces. This connectivity permits full integration of RDS/RBDS transmissions with the station's other networked functions, including message streams for digital radio and Webcasting. The SmartGen 4.1 encoder provides a full loopthrough interface for connection to your existing broadcast chain. The SmartGen 4.1 can 'parse' scrolling text, automatically breaking phrases into word groups.

FEATURES

- Supports European CENELEC and United States NRSC standards
- Remote configuration via ASCII or UECP through LAN or USB
- Includes the TA function for traffic message priority override
- Real time clock Schedules for Scrolling Text and text lists
- SNTP for automatic synchronization of the built-in clock
- Internal data diagnostics and transmission safeguards
- Attractive price and very good price-performance ratio
- Fully compatible with UECP EBU SPB490 Version 7.05
- Interfaces with all popular radio automation systems
- Compatible with EWS (Emergency Warning System)
- Proved and reliable hardware for 24/7/365 operating
- Embedded WEB server for interactive supervision
- 19" Professional Case for high RF immunity
- Easy Installation and Setup
- Built-in failsafe bypass relay
- PS & Radio Text Scrolling Options
- LAN & USB Programming Interfaces
- Fully Digital Synthesis of RDS signal
- MPX Loopthrough & Sidechain Modes
- Supports TMC (Traffic Message Channel)
- Very Intuitive UECP Configuration Software
- Supports RT+ for songs and content tagging
- Internal or external Pilot / MPX synchronisation
- Works with any FM exciter and stereo generator
- Built-in dedicated 19kHz source for internal sync
- Remote RDS viewer to visualize broadcasted data



SPECIFICATIONS

RDS FEATURES	
Group supported	All
Group Sequence	Configurable
PS	4 DSN x 4 PSN
PI	4 DSN x 4 PSN
PTY	RDS/RBDS
AF Method A	25
AF Method B	up to 50
RT	Yes, 5 messages
RT rate adjustment	Group Sequence
RT+ for songs and content tagging	Yes
TP	Yes
TA	Command, Software
PTYN	Yes
EON	4 PSN
CT	Yes
TMC, EWS, IH, TDC	Yes
Free Format Groups (FFG)	Yes
Open Data Application (ODA)	Yes
64-character Dynamic PS	Yes
Auto "parses" long messages for best text display	Yes
Scrolling by character	from 1 up to 8
Scrolling by word, Auto centering, Truncate long words	Yes

TECHNICAL SPECIFICATIONS	
Chassis Dimensions	1U"x19"x5" 44x485x130mm
Shipping Weight	2kg
Power Supply	Internal 100-240V/50-60 Hz
Pilot/MPX Input	Yes
MPX/RDS Output	0 to 4095 mV
Communication Port	USB, LAN
Synchronization	External (Pilot or MPX); Internal; Auto
Synchronization Monitoring	Yes
RDS Level adjustment	Digitally controlled
Phase adjustment	Yes, 0 ÷ 359.9°
Activate RDS SCA w/ Command	Yes
EN50067 compliant	Yes
Side Chain Mode, Loop through mode	Yes
Bypass feature	
RDS Subcarrier	100% Digitally Generated Shape
Pilot synchronization	Input Level: -50dBu to +12dBu Frequency: 19kHz, ±3Hz
Accurate Clock Time (CT) Sync w/ Internet Connection	Yes
Remote TA actuation for Traffic Announcements	Yes
Firmware can be upgraded in the field	Yes
Operating Temperature	0°C ÷ 55°C

COMMUNICATION

Communication Interfaces	USB, LAN	Password Protection	Yes
Connection with Automation Software	Yes	ASCII Protocol	Yes
Network Connectivity	2 TCP ports, 2 UDP ports	UDP, TCP, HTTP, SNMP	Yes
Scheduler	Yes	PI <=> CALL Calculator	Yes
Configuration	Embedded Web Server, SmartGen Manager	Remote Display	Yes
UECP Protocol	Fully compliant with EBU SPB490 Ver.7.05	Supplied with Intuitive Software	Yes
Accepts both ASCII and UECP Command Sets	Yes	Comes with 2-years Limited Warranty	Yes



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