SmartGen Mini

UECP COMPATIBLE, COMPACT RDS/RBDS ENCODER WITH LAN & USB CONNECTIVITY

Compact, Robust, Reliable and Smart – This is just a small part of all the benefits of our Second Generation RDS/RBDS Encoder SmartGen Mini. The interactive function RT+ for song tagging is fully supported without a compromise. Based on the latest RDS technology, the SmartGen Mini is fully digital design for 24/7/365 operation. The SmartGen Mini is the most cost effective solution for sending TMC and EWS Services. It supports both of European CENELEC and United States NRSC standards and is fully compatible with the latest UECP EBU SPB490 Version 7.05

SmartGen Mini 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 Mini encoder provides a full loopthrough interface for connection to your existing broadcast chain. The SmartGen Mini can 'parse' scrolling text, automatically breaking phrases into word groups.

The SmartGen Mini has all the RDS features you would ever need at an incredible price.

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
- Compact and Robust Aluminum Case for high RF immunity
- 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

- 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

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SPECIFICATIONS

Technical Specifications	
Pilot/MPX Input	Yes
MPX/RDS Output	0 to 4095 mV
Inputs/Outputs	No
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°
Separate outputs for RDS+MPX and for RDS only	No
Command to activate the RDS SCA	Yes
Side Chain Mode, Loop through mode, Bypass feature	Yes
RDS Subcarrier	100% Digitally Generated Shape / Bypass: 0 dB
Pilot Sync	Input Level: -50dBu to +12dBu / Frequency: 19kHz, ±3Hz
EN50067 compliant	Yes
Accurate Clock Time (CT) Sync with Internet Connection	Yes
Remote TA actuation for Traffic Announcements	Yes
GPS module for automatic synchronization of the built-in clock	No
Fully independent RDS decoder for self-monitoring purposes	No
Firmware can be upgraded in the field	Yes
Front-panel LCD displays all programmed data	No
Data may be entered on-site with Front-panel Buttons	No
Operating Temperature	-15°C ÷ 55°C

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 Control	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 shown on all RDS/RBDS Radios	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

Communication	
Communication Interfaces	USB, LAN
Connection with Automation Software	Yes
Network Connectivity	2 TCP ports; 2 UDP ports
Scheduler	Yes
Configuration	Embeded Web Server, SmartGen Manager
Password Protection	Yes
ASCII Protocol	Yes
UDP, TCP, HTTP, SNTP	Yes
Alert notifications on user-defined events via SNMP or E-mails	No
Embedded SNMP agent permitting active management tasks	No
Custom HTML formatted E-mail templates with dynamic variables	No
Supported Network Protocols:	HTTP, SNTP, UDP, TCP, UPnP
UECP Protocol	Fully compliant with EBU SPB490 Ver.7.05
PI <=> CALL Calculator	Yes
Remote Display	Yes

Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level

Power	
Voltage	External, 12V / 0.5A
Power Consumption	5VA
Connector	Power Jack 5.5mm

Size and Weight	
Dimensions (W;H;D)	120 x 31 x 103 mm
Shipping Weight	230 x 54 x 172 mm / 0.580 kg
HS Code	8527212000

WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS