

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 Bypass feature | Yes |
| 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 |



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