

# RDS E3

## RDS Datacasting and Tagging



### HIGHLIGHTS

- Compatible with UECP EBU SPB490 version 7.05
- Compliant with European CENELEC and USA NRSC standards
- Possibility of connection with all automated Playout System to generate PS/RT/RT+/TA/M-S
- Alternation between News/Data-Songs over RT/RT+/PS/PTY/PTYN

## GENERAL

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No control software is required, web server is integrated; simple configuration of all the parameters via web interface.

ECP software for a complete configuration UECF version 7.05 of all RDS functions.

Possibility of configuration via SNMP + UECF channel via SNMP. SNMP V1 and V2c.

High immunity to strong RF fields, designed to be installed in high power transmitting sites.

Simple and intuitive GUI, supported by all devices (PCs, notebooks, tablets, smartphones, etc...).

WEB interface with graphics of the generated RDS data, compliant with the latest standard graphics, simple, intuitive and recurring in all the configuration pages.

Support of HTTP, FTP, SNMP, SMTP, UDP and TCP.

Compatible with IPV4 – IPV6, IP configuration via USB key.

Possibility to configure up to 3 NTP Server (V1,V2,V3,V4).

Ethernet/USB/RS232/GPIO connection.

Power supply 90-260Vac 50/60Hz.

LED panel with 40 status LEDs.

SD card to clone the equipment.

Fanless and “green” (10W energy absorption).

1U rack 19”.

Generation and sending of alarms via email, SNMP (Trap), GPO, HTTP.

USB connection for:

- Copy of the data of the machine.
- Copy of the logs internal to the machine.
- IP configuration.

GPIO programmable 6GPIO/4Relay.

N°2 RS232 to receive UECF data.

## RDS

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All RDS services fully supported.

Scheduler Data Set.

Bypass HW,MPX IN/MPX + RDSOUT.

Double output MPX + RDS for measures.

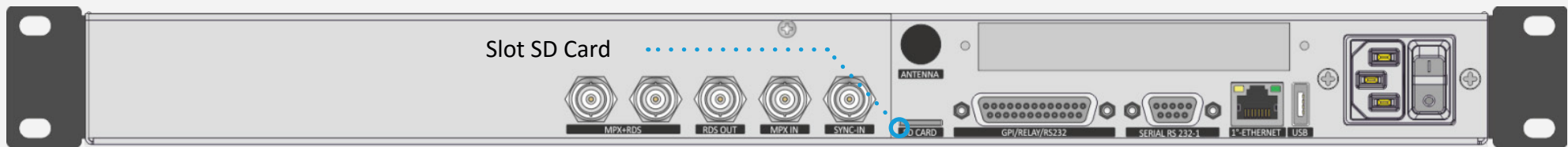
## FRONT / REAR PANEL

RDS E3



USB connection

Rear



Slot SD Card



2 MPX+1RDS outputs

2 inputs: 1° MPX Input and 2° Pilot Synch over BNC connector



2 RS 232 serial ports over DB9+DB25

USB port type A

Ethernet Port LAN/WAN

UPS 90 - 240Vac  
50/60Hz

GPIO port with 6 photocouplers and 4 relays over DB 25

TECHNICAL SPECS

**General Tech**

Power Supply	90-260 Vac / 47-63 Hz
Power Consumption	10W
Pilot/MPX Input	Yes
Inputs number	2
Outputs number	3
MPX/RDS Output	0 to 8191 mVpp
Signal/Noise Ratio	>85 dB
Carrier Suppression	>85 dB
GPIO Inputs/Outputs	6 GPI / 4 GPO
Communication Port	2xRS232, 3xUSB, 1xLAN
Synchronization	Ext(Pilot Mpx)/ Int/Auto
Synchronization Monitoring	Yes
RDS level adjustment	Digitally controlled
Phase adjustment	Yes, 0 ÷ 359.9°
Separate outputs for RDS+MPX and for RDS only	Yes
Side Chain Mode, Loop through mode, Bypass feature	Yes
RDS Subcarrier	Yes
Pilot synchronization	100% Digitally Generated Shape
CENELEC - EN50067 compliant –	Input Level: -50dBu to +15dBu / Frequency: 19kHz, ±2Hz
Accurate Clock Time (CT) Sync with Internet Connection	Yes
Remote TA actuation for Traffic Announcements	Yes
Firmware can be upgraded in the field	Yes
Front panel leds	Yes
Operating temperature	40 0°C ÷ 50°C

**RDS Features**

Group supported	All
Group Sequence	Configurable
PS	8 DSN x 10 PSN
PI	8 DSN x 10 PSN

**TECHNICAL SPECS**

PTY	RDS/RBDS
AF Method A	25
AF Method B	up to 1024 (64 lists)
RT	Yes, 32 messages
RT rate adjustment	Group Sequence
RT+ for songs and content tagging	Yes
TP	Yes
TA Control	Command, Soft, GPI
PTYN	Yes
EON	10 PSN
CT	Yes
PS Scrolling	Yes
Scrolling by characters	Yes
	Yes
	from 1 up to 8

**Communication**

Connection with Automation Software	Yes
Network Connectivity	4 TCP ports / 4 UDP / 1 SNMP
Scheduler	Yes
Configuration Software	Web Server, FTP
Password Protection	Yes
ASCII Protocol	Configuration Messages
UDP, TCP, HTTP, SMTP	Yes
Alert notifications on user-defined events via SNMP traps or E-mails	Yes
Embedded SNMP agent permitting active management tasks	Yes
Supported Network Protocols:	HTTP, SMTP, UDP, TCP, NTP,FTP
UECP Protocol	EBU SPB490 Ver.7.05
PI <=> CALL Calculator	Yes

**Size and Weight**

Dimensions (W;H;D)	485 x 44 x 240 mm
Weight	< 3Kg