

TRDS

RDS

MODEL **TRDS4002-LUXOR-D**



ORDERING INFORMATION

Model	Description
TRDS4002-LUXOR-D	Advanced Radio Data System dynamical encoder with SNMP V 2 control.



TRDS-4002-LUXOR-D

RDS.

FEATURES

PRIMARY APPLICATION: the TRDS4002-LUXOR is a RDS encoder designed to support all popular services provided by UECP SPB490 including dynamic services like TMC, TDC, IH, EWS and RT+, and it uses fully digital technology to guarantee a very high quality of modulation and spectral purity.

TECHNICAL FEATURES: the TRDS4002-LUXOR is fully digital and it uses only high quality components like A/D and D/A converters at 24 bit and numerical processing at 32 bit. Using the WINRDS+ software you can assign station and apparatus codes in order to be able to selectively program any

TRDS4002-LUXOR remotely such as satellite, LAN or Internet. The firmware can be updated via serial port without need for hardware settings and without interruption of service.

INPUT/OUTPUT INTERFACE: it can integrate an advanced BYPASS system between MPX input and outputs that ensure the service also in the event of failures (version TRDS4002-LUXOR-C).

HARDWARE FEATURES: the system housed in lightweight and rugged stainless steel rack cases having the dimension of 1 HE.

- Fully support of all RDS services, Static and Dynamic.
- RDS encoder fully compliant with UECP EBU SPB490 v7.05, CENELEC (uropa) and NRSC (America).
- UEPC Ports (2 Serials, 4 TCPIP, 4 UDP).
- N. 8 Data Set. and 10 EON + Main PS for each Data Set.
- Integrated RDS decoder.
- Dataset switch managed by UECP/SNMP/REST/HTTP/ASCII PARSER/TXT FILE/GPI.
- Can get autonomously data from the Radio Automation Systems (PS/RT/RT+/TA/MS). Easy RDS page fast setup.
- RDS Groups data analyser.
- Ethernet/USB/RS232/GPIO connections and easy WiFi Access.
- Possibility to send email to 4 receivers and to set 3 different SMPT servers. SNMP V2c. Possibility to set up to 3 NTP Servers (V1, V2, V3, V4).
- IPV4 and IPV6 support (3 addresses IPV4 and 3 addresses IPV6).
- N°2 RS232 for UECP commands.
- 6 GPI and 4 Relay Out (all GPIO are fully programmable by the GUI).

TRDS-4002-LUXOR-D

Parameters			Value	Notes
GENERALS				
Operating temperature			From -10 °C to +50 °C	
Operating humidity		%	95	Without condensing
A/D & D/A conversion			24 bit	
DSP Elaboration			32 bit, fixed point	
RDS function		EN50067	PTY, PTYN, TA, TP, MS, DI, PI, PS, AF, PIN, EON, RT, TDC, IMC, EWS, IH, CT	
		Command formats	UECP – SPB490 Ver.6.1 / 2003	
		Frequency	57 kHz ± 1,5 Hz	(Internal/external reference)
		57 kHz carrier attenuation	dB	Ø 75
		Phase 57 kHz		Adjustable up to 360° in 0,33° increments
		Out of band emission	dB	Ø 100
POWER REQUIREMENTS				
AC Power input		AC Supply Voltage		115 /230 VAC ± 10%
		Connector	W	VDE IEC Standard
MECHANICAL DIMENSIONS				
Overall dimensions		L x H x W	mm / inch	483 / 19
			mm / inch	44 / 3 1/2
Weight			kg	About 3,5
AUDIO INPUTS				
MPX		Connector		BNC
		Impedance	k Ω	10
		Input level		Gain 0dB / Max. +20 dBu
PILOT		Connector		BNC
		Impedance	k Ω	10
		Input level		Gain 0dB / Max. +20 dBu
				(Sinusoid. or TTL)
OUTPUTS				
1&2		Connector		BNC
		Impedance	Ω	50
		Output level	dBu	+20
				Adjustable via software
CONNECTORS				
RS232 Serial port		Connector		3x DB9 (female)
		Connection rate		From 1200 to 115200 baud 8, N, 1
Remote Input		Connector		DB25 (male): 8 input + 8 output (optional)
Ethernet		Connector		RJ45 (female): WEB & SNMP v.1.0 (optional) SNMP V2.C (TRDSP-4002-LUXOR-D)
WEB Server				Built in for TRDS4002-LUXOR-D

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.



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