Audio & RDS Equipments
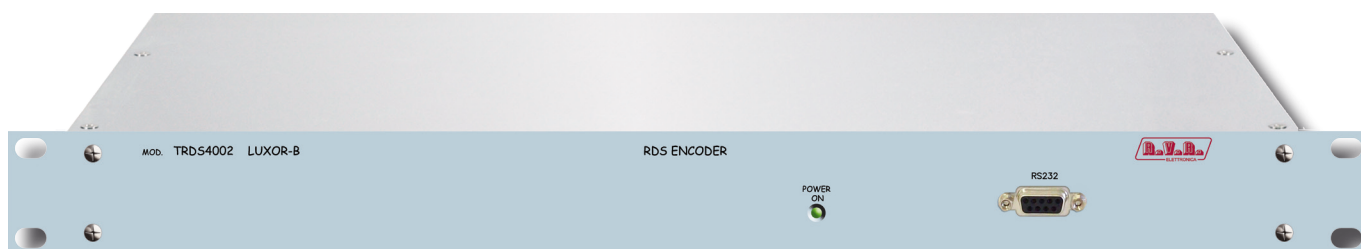
TRDS4002-LUXOR-B
TRDS4002-LUXOR-C

TRDS4002-LUXOR-B front view

Features

> **PRIMARY APPLICATION:** the **TRDS4002-LUXOR** is a RDS enco-
der 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 ap-

paratus 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.

Caratteristiche

> **PRIMARY APPLICATION:** il **TRDS4002-LUXOR** è un codificatore
RDS progettato per supportare tutti i servizi più diffusi previsti
dal protocollo UECP SPB490 compresi i servizi dinamici TMC,
TDC, IH, EWS e RT+ ed utilizza tecnologia totalmente digitale
in grado di garantire una qualità di modulazione ed una purez-
za spettrale elevatissime.

> **TECHNICAL FEATURES:** il **TRDS4002-LUXOR** è completamente
digitale ed utilizza esclusivamente componenti di alta qualità
come convertitori A/D e D/A a 24 bit ed elaborazioni numeri-
che a 32 bit.
Utilizzando il software WINRDS+ è possibile assegnare dei

codici di stazione e di apparato al fine di poter programma-
re selettivamente qualsiasi **TRDS4002-LUXOR** in remoto ad
esempio via satellite, lan o internet. Il firmware è aggiornabile
tramite porta seriale senza la necessità di settaggi hardware e
senza interruzione del servizio.

> **INPUT/OUTPUT INTERFACE:** può integrare un sistema evoluto
di BYPASS fra ingresso MPX e uscite garantisce il servizio anche
in caso di avarie (versione **TRDS4002-LUXOR-C**).

> **HARDWARE FEATURES:** il sistema è realizzato in un conteni-
tore rack in acciaio inox incredibilmente leggero e robusto in
dimensioni di 1 HE.

Technical specifications

Parameter		TRDS4002-LUXOR-B TRDS4002-LUXOR-C
		Value
GENERALS		
Overall Dimensions	L x H x W	483 x 44 x 280 mm
Weight		3,5 kg
Operating Temperature		From -10 °C to + 50 °C
Operating Humidity		95% non 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,TMC,EWS,IH,CT
	Command formats	UECP - SPB490 Ver.6.1 / 2003
	Frequency	57 KHz ±1,5 Hz (Internal/External Reference)
	Phase	Adjustable up to 360° in 0.33° increments
POWER REQUIREMENTS		
AC Power Input	AC Supply Voltage	115 / 230 VAC ±10%
	Connector	VDE IEC Standard
INPUTS		
MPX	Connector	BNC unbalanced (female)
	Impedance	10k Ω
	Input level	Gain 0dB / Max. +20 dBu
PILOT	Connector	BNC unbalanced (female)
	Impedance	10K Ω
	Input level	Gain 0dB / Max. +20 dBu (Sinusoid. or TTL)
OUTPUTS		
1 & 2	Connector	BNC unbalanced (male)
	Impedance	50 Ω
	Output level	+20 dBu – 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 v1.0 (Optional)

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.

CE ① 99/5/CE   Revision: 05/15

Ordering Information

Code -Codice	Description - Descrizione
Versions for TRDS4002-LUXOR family – Versioni per TRDS-4002-LUXOR family	
TRDS4002-LUXOR-B	Radio Data System encoder. *Encoder RDS (Radio Data System).*
TRDS4002-LUXOR-C	Radio Data System encoder with MPX by-pass function. *Encoder RDS (Radio Data System) con funzione by-pass per MPX.*

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ISO 9001:2000 certified since 2000

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