

Audio & RDS Equipments

> *stereo & RDS coder systems*

SDC200/RDS



SDC200/RDS front view

Features

- > **PRIMARY APPLICATION:** the **SDC200/RDS** is a high-performance digital stereo encoder that incorporates all technical features offered by more expensive coders without compromising on quality in this economical device; it combines high DSP-based Digital Stereo performance with an RDS coder.
- > **TECHNICAL FEATURES:** The **SDC200/RDS** generates an "MPX" (composite stereo) signal that is processed digitally through an internal DSP (Digital Signal Processing) using the Right and Left digital inputs, and ensuring both a high stereophonic separation that a high input level capacity. The stereo coding is realized digitally, as well as the low-pass filters and the preemphasis.
- > **INPUT/OUTPUT INTERFACE:** the digital input section supports S/PDIF, AES/EBU (sampling frequencies from 32 to 96 KHz) and EIAJ CP340/1201 data format. The analogue input/output section supports two buffered MPX outputs, each with independent levels, maintain best stereo separation even when load is as low as 50 Ohm.
- > **INTERFACE CONTROL:** total control thanks to microprocessor easily programmed from menu with all key parameters displayed on LCD.
- > **HARDWARE FEATURES:** the system housed in lightweight and rugged stainless steel rack cases having the dimension of 1 HE.

Caratteristiche

- > **PRIMARY APPLICATION:** il **SDC200/RDS** è un codificatore stereo digitale ad alte prestazioni che integra in un sistema economico tutte le caratteristiche tecniche di coder più costosi, senza compromettere la qualità; unisce alte prestazioni Stereo Digitali basate su DSP con un coder RDS.
- > **TECHNICAL FEATURES:** Il **SDC200/RDS** genera un segnale "MPX" (Stereo Composito) direttamente in formato digitale attraverso un circuito DSP "Digital Signal Processing" (elaborazione digitale di segnale) utilizzando gli ingressi digitali Destro e Sinistro, e garantendo sia un'alta separazione stereo che un'alta capacità di livello in ingresso. La codifica stereo è realizzata digitalmente, come pure i filtri passa basso d'ingresso e la preenfasi.
- > **INPUT/OUTPUT INTERFACE:** La sezione degli ingressi digitali comprende il supporto di S/PDIF, AES/EBU (frequenze di campionamento da 32 a 96 KHz) e formato dei dati EIAJ CP340/1201. La sezione degli ingressi/uscite analogiche presenta due uscite MPX bufferizzate, ciascuno con livelli indipendenti, che permettono di tenere una separazione stereofonica ottimale anche con carichi bassi quanto 50 Ohm.
- > **INTERFACE CONTROL:** controllo completo basato su microprocessore e da menu con lettura su display LCD di tutti i parametri principali.
- > **HARDWARE FEATURES:** il sistema è realizzato in un contenitore rack in acciaio inox incredibilmente leggero e robusto in dimensioni di 1 HE.

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BROADCAST
EQUIPMENT

Technical specifications

Parameter		SDC200/RDS	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 conversion			24 bit (Dynamic range 105dB)
D/A conversion			24 bit (Dynamic range 123dB)
DSP elaboration			32 bit, fixed point
Sampling Rate			From 32 to 96 KHz
Preemphasis			0/50/75 microsec.
Clipper & AGC			Right and Left channel, composite MPX input
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 \pm 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 \pm 10%
	Connector		VDE IEC Standard
INPUTS			
Left & Right	Connector		XLR balanced (female)
	Impedance		600 / 10k Ω
	Input level		-12dBu to +12dBu in step of 0,1dB – adjustable via software
	Maximum input level		+16 dBu
MPX	Connector		BNC unbalanced (female)
	Impedance		10k Ω
	Input level		Gain 0dB / Out. +20 dBu
PILOT	Connector		BNC unbalanced (female)
	Impedance		10K Ω
	Input level		-30 / +12 dBu (Sinusoid. or TTL)
DIGITAL	Connector		RCA unbalanced (male)
	Impedance		75 Ω
TOSLINK	Connector		EIAJ optical
OUTPUTS			
1 & 2	Connector		BNC unbalanced (male)
	Impedance		50 Ω
	Output level		-12dBu to +12dBu in step of 0,1dB – adjustable via software
	Maximum output level		+20 dBu
CONNECTORS			
RS232 serial port	Connector		3x DB9 (female) + 1 USB (optional)
	Connection rate		From 1200 to 115200 Baud
REMOTE input	Connector		DB9 (male): 8 Input + 8 Output (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.

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