



TD/16 RD/16 Digital Encoder / Decoder for FM Broadcast

Technical Characteristics

Specifications:

Analog audio input 2	XLR female, 600 Ω balanced
Analog audio level	-10 to +16 dBm adj
Digitally coded output signal	0.4 to 8 Vpp into 10k Ω load
Sampling rate	36 ksps (others on request)
Bit per sample	16
Digital audio input	professional XLR female, 110 Ω balanced
Standard	AES/EBU
Digital audio input sample rate	32 or 44.1 or 48 ksps
RDS input	BNC, 10 k Ω unbalanced
Data input	4800 bps, RS-232, 9-pin female
Indicators	analog audio input peaks, ES/EBU status, system fault, RDS & Data
Temperature range	0 to 45 $^{\circ}$ C

STL receiver requirements:

Receiver output impedance	600 Ω bal./unbal
Bridge signal-to-noise ratio	\geq 54 dB
Audio bandwidth, \pm 1 dB	10 Hz to 110 kHz
Total group delay variation	\leq 0.5 μ s
Minimum channel bandwidth	180 kHz

System specifications:

High quality audio channels	2 or 4 according to the model
Channel crosstalk	-85 dB
Audio channels frequency response	15 Hz to 15 kHz, \pm 0.25 dB
Distortion at 1 kHz	0.01 %
Distortion at 10 kHz	0.015%
Dynamic range	93 dB typ
Signal-to-noise ratio	\geq 80 dB
Sensitivity at 10^{-4} BER	- 85 dBm tip
Max BER for no loss in audio quality	\leq 10^{-4}
Audio coding method	APT-x (others on request)
Audio delay	\leq 3.8 ms

Power requirements:

Operating voltage	115/230 Vac \pm 10 %, 50/60 Hz
Power requirements	34 W

Weight and size:

Weight	4.4 kg
W x H x D (see options)	483 x 45 x 357 mm

Features and specifications subject to change without notice.