

# SDT 6000 SB / SDT 7000 SB

**QPSK to QAM transmodulators that can increase the output Baud Rate, never reduce it. A device inserts packs of stuffing without information -called Stuffing Bytes- in the MPEG output stream. This enables digital satellite channels to be seen with Set Top Box receivers, which do not allow the input Baud rate to be varied.**

## APPLICATION

VHF/UHF distribution SMATV installations, new or existing, equipped with an extraordinary digital satellite-transmitted TV programme capacity.

## CHARACTERISTICS

- Adjacent channel operation.
- No need of input splitters or output combiners
- Displays BER, Bit Error Rate, for accurate measuring of installation margin.
- Easy programming of the output channel by UCF 100 Control Unit.
- Screws and power supply cable included.



Supply voltage	Vdc	30	24	17	12	5
Current drawn (8,5 W)	mA	1	—	20	300	860
Operating temperature range						0 ÷ 40° C

MODEL	SDT 6300 SB	SDT 7300 SB	SDT 6400 SB	SDT 7400 SB
Reference	08161	08171	08165	08175
Assembly system	Frame	Rack 19"	Frame	Rack 19"
Input / output connectors	F (f)			
Input frequency	MHz			
	950 ÷ 2150 (Resolution 1 MHz)			
LNB powering	V			
	18			
Modulation type	QPSK (DVB compatible)			
Input level	dBµV			
	44 ÷ 84 dBµV (– 65 ÷ – 25 dBm)			
Input through losses	dB			
	1,5			
AFT pulling range	MHz			
	± 5			
IF band	zero FI			
QPSK Baud Rate	Mbaud			
	1,5 ÷ 45 (Resolution 1K Baud)			
Code rate (automatic)	1/2, 2/3, 3/4, 5/6, 7/8			
FEC (Reed Solomon)	DVB compliance			
Deinterleaving	DVB compliance			
Descrambling	DVB compliance			
QAM modulation type	16/32/64/128/256 QAM			
FEC (Reed Solomon)	DVB compliance			
Scrambling	DVB compliance			
Interleaving	DVB compliance			
Base band shaping (Roll-off)	DVB compliance (12, 15, 18% programmable)			
Spectrum Inversion	programmable			
QAM Baud Rate	Mbaud			
	< 7 for 16/32/64/128 QAM; ≤ 6,650 for 256 QAM (Programmable)			
MER	dB			
	> 35			
Output frequency range	MHz		MHz	
	47 ÷ 310 (Resolution 125 KHz)		302 ÷ 862 (Resolution 125 KHz)	
Output through losses	dB			
	1,5			
Output level	dBµV			
	65 ÷ 85 dBµV (– 44 ÷ – 24 dBm)			
C/N ratio	dB			
	46 typical			
Output spurious	dB			
	< – 54 typical			
Phase noise	dB/Hz			
	– 85 dBc @ 10 KHz			
Packing dimensions	mm			
	272 x 166 x 45			
Weight	Kg			
	1,6			