TERRA

Modular reception system
Twin digital transmodulators

Converting of 2 DVB-S/S2/T/T2/C modulated input signals into 2 COFDM modulated DVB-T/ISDB-T channels.

- software switchable standards DVB-T/ISDB-T
- common interface
- TS processing:
  - service multiplexing - any input to any output
  - PCR restamping
  - PSI/SI regeneration
  - NIT generation
  - PMT version monitoring
- Web control and SNMP monitoring
- loop through RF distributing at input and output
- DIN rail or wall mounting
- robust die-cast housing
- connectors:
  - RF input/output - type F
  - Ethernet control interface - RJ-45
  - 2xCI ports - PCMCIA (tdx420C, ttx420C)
  - screw terminal block for DC entry
  - power distribution bus

tdx420C
ttx420C

tdx420
ttx420

tdx420C*
DVB-S/S2 - DVB-T/ISDB-T transmodulator with two CAMs
ttx420C
DVB-T/T2/C - DVB-T/ISDB-T transmodulator with two CAMs
tdx420
DVB-S/S2 - DVB-T/ISDB-T transmodulator
ttx420
DVB-T/T2/C - DVB-T/ISDB-T transmodulator

Technical specifications

T Y P E		tdx420C* / tdx420		ttx420C / ttx420		
Ordering number		03855 / 03855F		03856 / 03856F		
Number of channels		2				
RF input	frequency range pr.	950-2150 MHz		47-862 MHz		
	LNB powering/control pr.	0/13/18 V & 22 kHz, 1 A*** max. DiSEqC 1.0, EN50607, EN50494		12 V 100 mA		
	level/impedance	45-85 dBμV / 75 Ω		40-80 dBμV / 75 Ω		
	loop through gain	-1 ± 1 dB		0 ± 1 dB		
	standard pr.	**DVB-S**	**DVB-S2****	**DVB-T**	**DVB-T2**	**DVB-C**
	modulation	QPSK	QPSK, 8PSK APSK 8/16/32	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64, QAM256	QAM16, QAM32, QAM64, QAM128, QAM256
	channel bandwidth pr.	-	-	7 MHz/8 MHz	7 MHz/8 MHz	-
	symbol rate pr.	2 ÷ 45 Ms/s	2 ÷ 45 Ms/s	-	-	1 ÷ 7.2 Ms/s
	code rate	1/2, 2/3, 3/4, 5/6, 7/8	QPSK 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 3/5, 2/3, 3/4 4/5, 5/6	-
	roll off	35 %	20 %, 25 %, 35 %	-	-	15 %
RF output	standard pr.	DVB-T / ISDB-T				
	modulation pr,	QPSK/QAM16/QAM64 (DVB-T), QPSK/ DQPSK/QAM16/QAM64 (ISDB-T)				
	frequency range pr.	100 - 858 MHz, by step 100 kHz				
	channel allocation	adjacent				
	level/impedance	90 ± 2 dBμV/75 Ω				
	spurious level	< -60 dB				
	MER	≥ 38 dB (100-780 MHz); ≥ 35 dB (780-860 MHz)				
	channel bandwidth pr.	7/8 MHz				
	guard interval pr.	1/4, 1/8, 1/16, 1/32				
	code rate pr.	1/2, 2/3, 3/4, 5/6, 7/8				
	transmission mode	2K				
	total output level adjustment pr.	0 ÷ -15.0 dB by 1 dB step				
	loop through frequency range/loss	47-862 MHz / ≤ 2.5 dB				
Transport stream	max. bit rate	output 31670 kbps				
parameters	max. PID filter count	unlimited				
Management port		standard IEE802.3 10/100 Base T				
Current consumption without external load		12 V 550 mA		12 V 650 mA		
Current consumption with maximum external load		12 V 3 A		12 V 0.8 A		
Current consumption with max. CAM's and ext.load		12 V 3.6 A (tdx420C)		12 V 1.1 A (ttx420C)		
Operating temperature range		0º ÷ +50ºC				
Dimensions/Weight (packed)		48.5x198x112 mm/0.9 kg				

pr. software control

* T2-MI deencapsulation is supported only in M.1 version; M.1 version is supplied by special request
** supports physical layer scrambling (PLS) and multiple input streams (MIS)
*** only in v.1 and v.2 versions