TERRA

Modular reception system
Twin DVB-S/S2 & DVB-T/T2/C - DVB-C transmodulators

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

- 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 (tdq420C, ttq420C)
  screw terminal block for DC entry
  power distribution bus

tdq420C*
DVB-S/S2 - DVB-C transmodulator with two CAMs

ttq420C
DVB-T/T2/C - DVB-C transmodulator with two CAMs

tdq420
DVB-S/S2 - DVB-C transmodulator

ttq420
DVB-T/T2/C - DVB-C transmodulator

tdq420C
ttq420C



tdq420
ttq420



Technical specifications

T Y P E			tdq420C* / tdq420		ttq420C / ttq420		
Ordering number			03853 / 03853F		03854 / 03854F		
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, 500 mA 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
	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	frequency range	pr.	100 - 858 MHz, by step 100 kHz				
	channel allocation		adjacent				
	level/impedence		90 ± 2 dBµV/75 Ω				
	return loss		≥ 14 dB at 47 MHz; -1.5 dB/oct., but not less 10 dB				
	spurious level		< -60 dB				
	MER		≥ 40 dB				
	modulation DVB-C	pr.	QAM16, QAM32, QAM64, QAM128, QAM256				
	channel bandwidth / symbol rate	pr.	4...8.3 MHz / 3.5 ÷ 7.2 MS/s				
	roll off		15 %				
	signal processing		EN 300 429, ITU-T J.83 A (Annex A)				
	total output level adjustment	pr.	0 ÷ -15.0 dB by 1 dB step				
	loop through frequency range/loss		47-2150 MHz/ ≤ 2.5 dB				
Transport stream parameters	max. bit rate		output 53 Mbps				
	max. PID filter count		unlimited				
Management port			standard IEE802.3 10/100 Base T				
Current consumption***			12 V 550 mA		12 V 650 mA		
Operating temperature range			0° ÷ +50° C				
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)

*** without external DC feeding and CAM, with two CAM's ≈0.85 A (for tdq420C), ≈0.95 A (for ttq420C)