



Modular reception system

Multichannel digital transmodulators

Converting of 8 DVB-S/S2 modulated input signals into 4/8 COFDM/QAM modulated DVB-T/DVB-C RF channels.

- TS processing:
 - any service to any output
 - PCR restamping
 - service filtering
 - PSI/SI regeneration
 - NIT generation
 - PMT version monitoring
- BISS descrambling
- 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
 - screw terminal block for DC entry
 - power distribution bus

- tdx481**
8 DVB-S/S2 transmodulator to 8 DVB-T channels
- tdx441**
8 DVB-S/S2 transmodulator to 4 DVB-T channels
- tdq481**
8 DVB-S/S2 transmodulator to 8 DVB-C channels
- tdq441**
8 DVB-S/S2 transmodulator to 4 DVB-C channels



Technical specifications		tdx481	tdx441	tdq481	tdq441
TYPE					
Ordering number		04806	04807	04809	04808
Sections input/output		8/8	8/4	8/8	8/4
RF input	RF input count	1			
	frequency range pr.	950-2150 MHz			
	level/impedance	55-95 dBμV / 75 Ω			
	return loss	≥ 10 dB			
	loop through frequency range/loss	950-2150 MHz / ≤ 1.5 dB			
	LNB powering/control pr.	0/13/18 V & 22 kHz, 500 mA total, DiSEqC 1.0, EN50494, EN50607			
	standard pr.	DVB-S/S2*			
	modulation	QPSK, 8PSK, APSK 8/16/32			
symbol rate pr.	2 ÷ 45 Ms/s				
RF output	standard pr.	DVB-T		DVB-C	
	modulation pr.	QPSK, QAM16, QAM64		QAM16, QAM32, QAM64, QAM128, QAM256	
	frequency range pr.	170-230 MHz / 470-862 MHz		96-862 MHz	
	channel allocation, adjacent	4 + 4	4	4 + 4	4
	level/impedance	90 ± 2 dBμV/75 Ω			
	TS bit rate	< 31 Mbit/s		< 53 Mbit/s	
	MER	≥ 35 dB		≥ 40 dB	
	channel bandwidth pr.	7 MHz / 8 MHz		4...8.3 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		-	
	symbol rate pr.	-		3.5 ÷ 7.2 Ms/s	
	return loss	≥ 10 dB			
	roll off	-		15%	
transmission mode	2K		-		
total output level adjustment pr.	0 ÷ -15.0 dB by 1 dB step				
loop through frequency range/loss	45-862 MHz / ≤ 2.5 dB				
Management port	standard IEE802.3 10/100 Base T				
Supply voltage	12 V ± 1 V				
Current consumption, without external load	1.2 A	1.0 A	1.2 A	1.0 A	
Current consumption, with maximum external load	2.2 A	2.0 A	2.2 A	2.0 A	
Operating temperature range	0° ÷ +35°C				
Dimensions/Weight (packed)	63x198x112 mm / 1.24 kg				

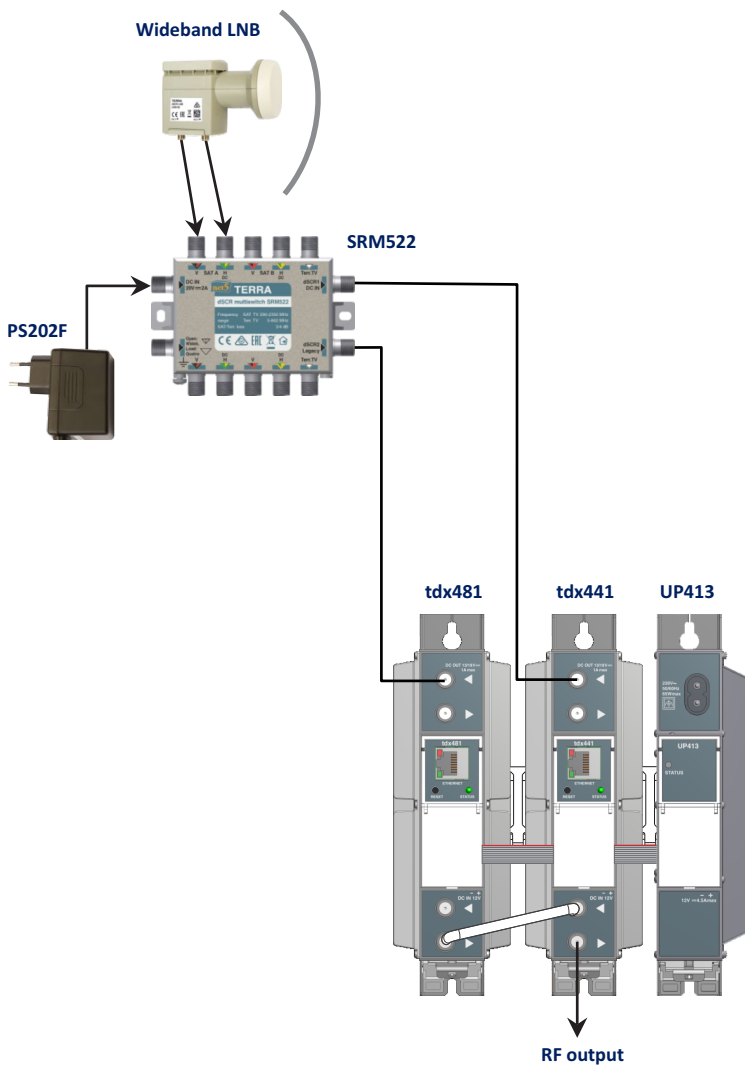
* supports physical layer scrambling (PLS) and multiple input streams (MIS)

pr. software control

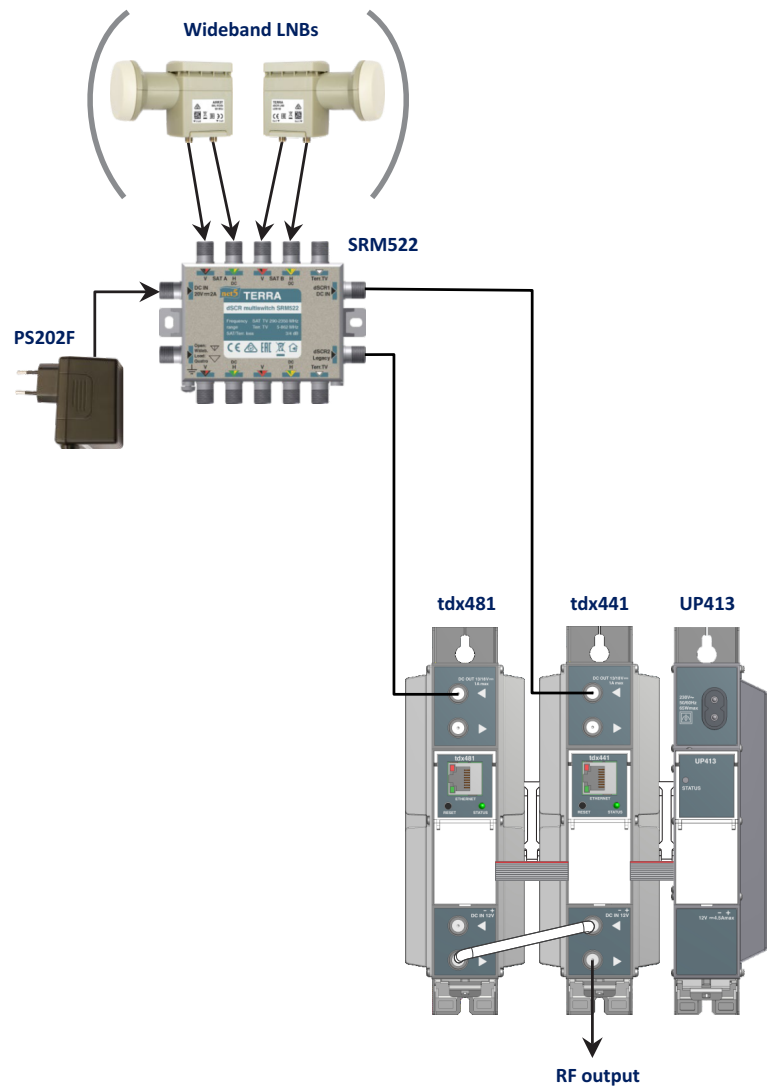


Modular reception system Application examples

Application example of SAT TV content distribution from 1 satellite orbital position.



Application example of SAT TV content distribution from 2 satellite orbital position.



SRM522 - wideband compatible dSCR multiswitch

PS202F - 20 V power supply

UP413 - 12 V power supply