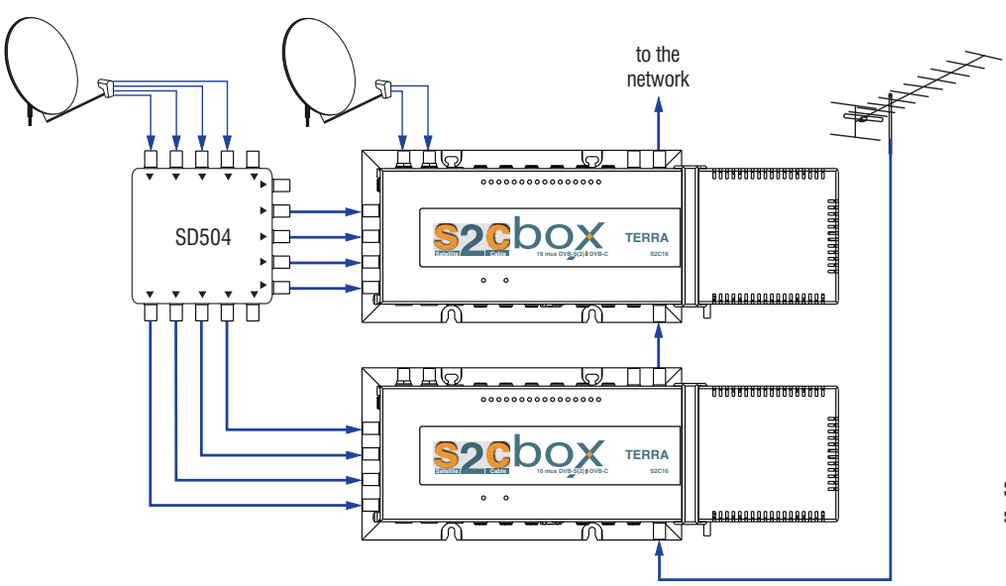
Stand alone headend
16 channels 8PSK/QPSK to 16 QAM transmodulators

S2Cbox - micro processing unit of 37x14x7 cm only, which allows distribution ofsatellite TV programs using the existingin house coaxial network structure. Any output channel from 48 MHz to 858 MHz can be selected and adjusted independently. Fanless solution with extremely low power consumption - 30 W only for 16 SAT transponders processing is implemented in robust die-cast housing. Web-based control of the headend makes easy setup and configuration.

Remote control and SW upgrade, SNMP monitoring, save and load configuration file, PW protected control panel for multiple users and more functions are available.

- **S2C16** -16 channel transmodulator
- **S2C16P** - 16 channel transmodulator with powering redundancy

Application example of processing from 32 SAT transponders to 32 DVB-C channels and combining of terrestrial TV.



SD504 - 2 way splitter,
see www.terraelectronics.com

TERRA

Stand alone headend
16 channels 8PSK/QPSK to 16 QAM transmodulators

Converting of 16 DVB-S/S2 8PSK/QPSK modulated SAT IF multiplexes into 16 QAM modulated DVB-C RF channels.

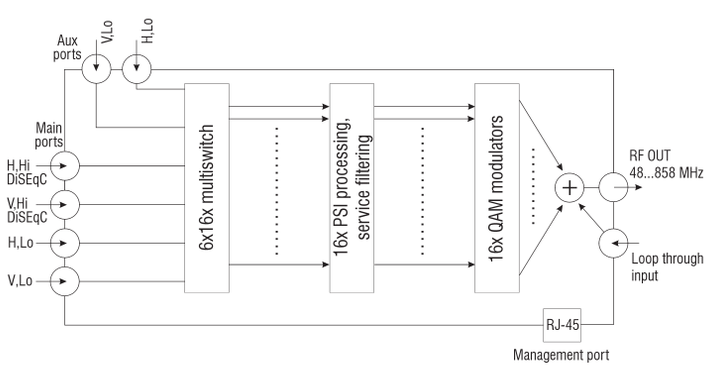
- built-in redundancy power supply with 2 separated mains leads (**S2C16P**)
- 6 SAT IF inputs
- TS processing:
  PCR restamping
  service filtering
  PSI/SI regeneration
  NIT generation
  PMT version monitoring
- SNMP traps
- die-cast housing
- connectors:
  RF input & output, output test point - type F
  Web based control - RJ-45

Technical specifications

T Y P E			S2C16 / S2C16P	
Ordering number			03817 / 03824	
Number of channels			16	
RF input	frequency range	pr.	6x (950 - 2150 MHz)	
	level AGC range/impedance		45-85 dBµV/75 Ω	
	LNB powering/control	pr.	DiSEqC max. 500 mA +250 mA / 13 V/18 V, 22 kHz	
	modulation		**DVB-S demodulator (QPSK)**	**DVB-S2 demodulator (QPSK, 8PSK)**
	symbol rate	pr.	2 ÷ 45 MS/s	2 ÷ 45 MS/s (QPSK), 2 ÷ 31.5 MS/s (8PSK)
	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
	roll off		35 %	20 %, 25 %, 35 %
	signal processing		ETSI 300 421	ETSI 302 307
RF output	frequency range	pr.	48 - 858 MHz, by step 100 kHz	
	channel allocation		independent	
	output level per carrier/impedence	pr.	90 dBµV/75 Ω	
	total output level adjustment	pr.	15 dB by 0.5 dB step	
	carrier output level adjustment	pr.	+3 dB...-3 dB by 0.5 dB step	
	loop through frequency range/loss		45-862 MHz/3 dB	
	MER		≥ 43 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	
	return loss		≥ 14 dB	
	roll off		15 %	
	signal processing		EN 300 429, ITU-T J.83 A (Annex A)	
	test point		-20 dB	
Input data rate			max. 90 Mbps per channel	
Management port			10/100 Base-T Ethernet	
Power consumption*			230 V~ 50/60 Hz up to 29 W	
Operating temperature range			-10° ÷ +55° C	
Dimensions/Weight (packed)			373x135x69 mm / 3.1 kg (S2C16); 492x135x69 mm / 3.54 kg (S2C16P)	

pr. software control

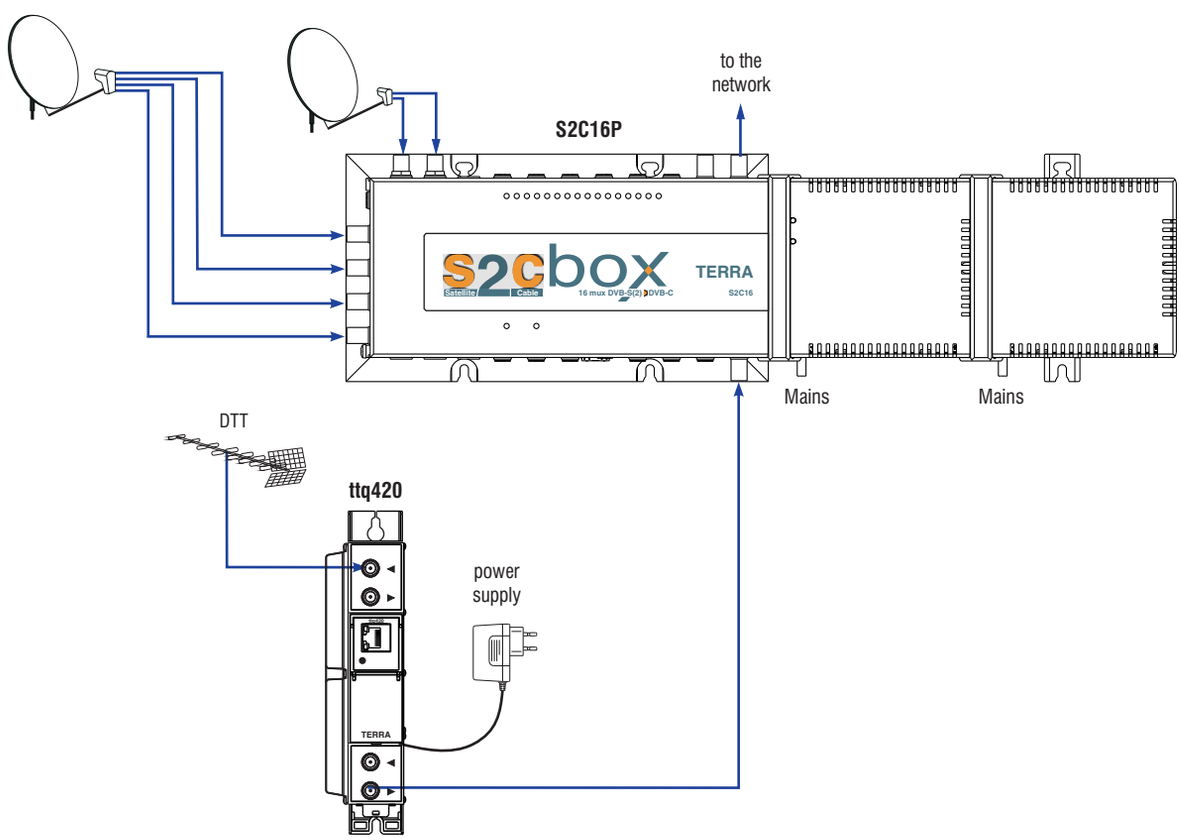
* without external DC load;
with maximal external DC load 44 W



Stand alone headend

Application diagram

Application example of processing from:
- 16 SAT transponders of 2 satellites to DVB-C channels
- 4 DTT channels to DVB-C channels



ttq420 - twin digital transmodulator