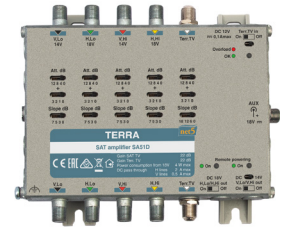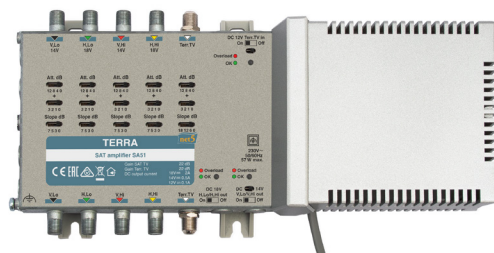# 5 cable system
Launch and line amplifiers

- for compensation of through losses of multiswitches and interconnection cables in 5 cable distribution systems
- cascadable with 5 cable system components: taps, splitters and multiswitches
- signal level control and adjustable equalizer at all inputs
- push-pull amplifier on terrestrial TV line
- die-cast housing

SA51
launch amplifier for amplifying of 4 SAT IF and terrestrial TV signals; built-in switch-mode power supply allows to feed: 18 V DC via H inputs and 14 V DC via V inputs to up lines; switchable 18 V DC via H outputs and switchable 14 V DC via V outputs to down lines; switchable 12 V DC via Terr. TV input

SA51D
line amplifier for amplifying of 4 SAT IF and terrestrial TV signals; in line powering through H lines; switchable DC pass through H and V lines; switchable 12 V feeding via Terr. TV input; remote powering voltage indication

net5

Technical specifications

TYPE		SA51	SA51D
Ordering number		02730	02731
Frequency range	SAT IF	950-2400 MHz	
	Terr. TV	47-862 MHz	
Gain	SAT IF, adjustable	22 dB (0 ÷ -15 dB) by 1 dB step	
	Terr. TV, adjustable	22 dB (0 ÷ -15 dB) by 1 dB step	
Slope	SAT IF, switchable	0/3/5/7 dB	
	Terr. TV, switchable	0/6/12/18 dB	
Isolation	SAT/SAT	30 dB	
	SAT/Terr. TV	30 dB	
Noise figure, typical		≤ 9 dB	
Output level IMD3=60 dB Terr. TV****		109 dBμV	
Output level IMD3=35 dB SAT IF****		114 dBμV	
External equipment	through V lines	14 V 0.5 A max. (switchable)	-
powering	through H lines	18 V 2 A* max. (switchable)	-
	through Terr line	12 V 0.1 A max. (switchable)	-
DC pass through, switchable through H lines		2 A* max.	
Power consumption		230 V~ 50/60 Hz 5 W**	DC 9-18 V 4 W***
Operating temperature range		-20º ÷ + 50º C	
Dimensions/Weight (packed)		284x135x52 mm/1.0 kg	178x135x32 mm/0.6 kg

* 1 A max. through one line

** without external DC loading; with maximal external DC load - 55 W

*** in line powering of SA51D through H lines

**** measured using 2 equal signals