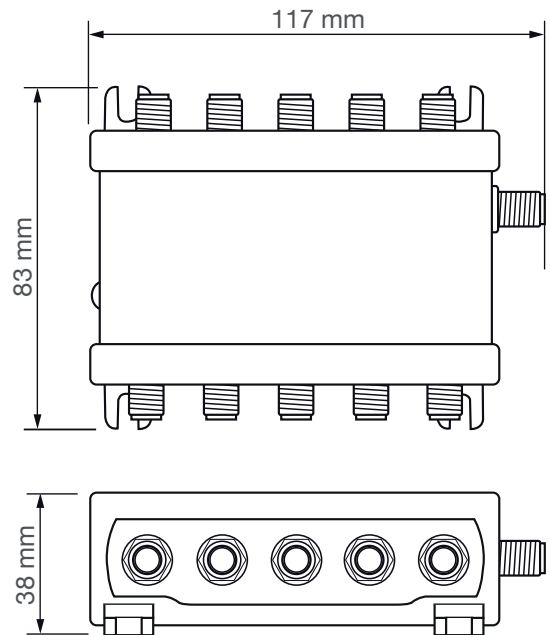


## SCD516/1

Cascadable dCSS/Legacy Multiswitch  
1° IF-SAT with 4 cables + TV terrestrial

- Auto-detection Legacy/SCR mode
- 1 x 16 User Band
- Automatic Control Gain
- 3 Step selectable Legacy/SCR output level
- DC plug for LNB and Multiswitch powering
- Low loss Terrestrial diplexer Lte ready



### General rules

To avoid interference use one taps for each living unit.

Use only splitters and sockets which allow the power to run through diodes.

All multiswitch from the **SCD516** series may be equally used in new and already existing installations.

### Technical Instructions



Electrical and electronic equipments **are not household waste**. In accordance with the European directive EN50419 (corresponding to the article 11(2) of the guideline 2002/96/EC) of the European Parliament of the Council of January, 27th 2003 on used electrical and electronic equipment, it must be disposed properly. At the end of the product life cycle please take this unit and dispose it on designated public collection points.



Installation is only permitted in dry rooms and upon a non combustibile surface. Ensure that there is an adequate air circulation.



LEM ELETTRONICA confirms the keeping of the EMC requirements in accordance to the EU product norm EN 50083-2 and the keeping of the safety requirements in accordance to the EU product norm EN 60728-11 by the CE sign.

**Class A** This product meets the more stringent screening requirements according to EN 50083-2, quality grade A.

## Technical Specifications

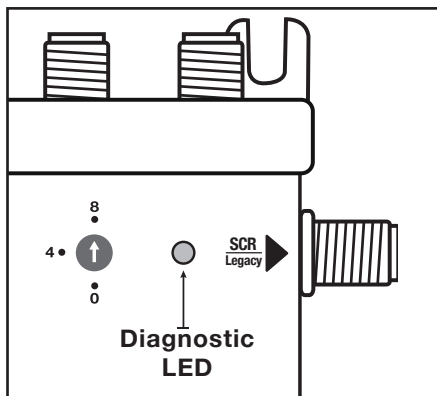
5 CABLES 1 TAP		SCD516/1	SCD516/1-15
TYPE		Cascadable	Cascadable
IF-SAT FREQUENCY RANGE	MHz	950... 2150	
TV TERR. FREQUENCY RANGE	MHz	5... 790	
INPUT/OUTPUT		5 / 5	5 / 5
No TAPS		1	
TAPS OUTPUT FREQUENCY RANGE	MHz	950... 2150 MHz	
IF-SAT INPUT LEVEL	dB $\mu$ V	60... 100	
A.C.G. IF-SAT RANGE	dB $\mu$ V	60... 90	
TAP LEGACY LEVEL	dB $\mu$ V	80/84/88 (Typical)	
TAP SCR LEVEL	dB $\mu$ V	82/86/90	
IF-SAT THROUGH LOSS	dB	$\leq 1$	$\leq 1$
TV TERR. TAP LOSS	dB	7	12
TV TERR. THROUGH LOSS	dB	$\leq 2$	$\leq 2$
SUPPORTED STANDARDS		SKY UK - EN50494 - EN50607 DiSEqC 1.0 DiSEqC 2.0 Univ. LNB Voltage & Tone	
SCR/dCSS BANDWIDTH	MHz	46	
SCR/dCSS USER BAND x TAP		16	
CROSS-POL. ISOLATION	dB	> 30	> 30
IN/OUT ISOLATION	dB	> 30	> 30
PHASE NOISE	dBc/Hz	-90 @ DELTA F=1KHz	
RETURN LOSS	dB	> 12	
LNB POWER LINE		Vertical Low Band	
MAX LNB POWER	mA	500	
MAX CURRENT DRAIN @ 13V	mA	310	
DIMENSIONS	mm	83x118x38	

## SCD516/2 User Band / Frequency plan

EN 50494 (SCR Standard)	EN 50607 (SCD2)
UB1: 1210 MHz	UB1: 1210 MHz
UB2: 1420 MHz	UB2: 1420 MHz
UB3: 1680 MHz	UB3: 1680 MHz
UB4: 2040 MHz	UB4: 2040 MHz
UB5: 985 MHz	UB5: 985 MHz
UB6: 1050 MHz	UB6: 1050 MHz
UB7: 1115 MHz	UB7: 1115 MHz
UB8: 1275 MHz	UB8: 1275 MHz
	UB9: 1340 MHz
	UB10: 1485 MHz
	UB11: 1550 MHz
	UB12: 1615 MHz
	UB13: 1745 MHz
	UB14: 1810 MHz
	UB15: 1875 MHz
	UB16: 1940 MHz

## Diagnostic LED

Each TAP of the SCD516/2 is separately powered from the connected decoders and can work in Legacy or SCR mode. The diagnostic led indicates the status of the TAP.



LED	Tap
Off	No power supply
Solid Green	Legacy
Solid Blue	SCR
Blinking Green	Voltage <8,5 Volt
Blinking Blue	Power Too Low

## Power Level Selection

The multiswitch are equipped with the Automatic Control Gain and they feature a selector which allows the selection of 3 different output levels. To choose the right output level you need to consider the cables length, the number and features of the splitters and taps used in the system.

## Power Consumption

The SCD516/1 can be powered from the connected decoders and the consumption depends on the status mode (Legacy or SCR). The consumption in SCR mode increases progressively with the number of active User Band.

Voltage	Legacy	2 U.B.	4 U.B.	8 U.B.	16 UB.
13 Volt	190 mA	210 mA	280 mA	290 mA	310 mA
18 Volt	150 mA	160 mA	200 mA	210 mA	230 mA

