

# LEM ELETTRONICA®

Satellite and TV reception equipment

## HSX58, HS58/20, HSX58T

- Adjustable SAT gain (3 steps)
- Tone high sensitivity
- SAT/Terrestrial TV isolation
- LNB powered by receiver
- Support for wall fixing
- Standard colour input coding
- Very low power consumption

Ready for **HDTV** **MADE IN ITALY**

**WARRANTY 5 YEARS**

**Lte READY**  
5... 790 MHz

### 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.

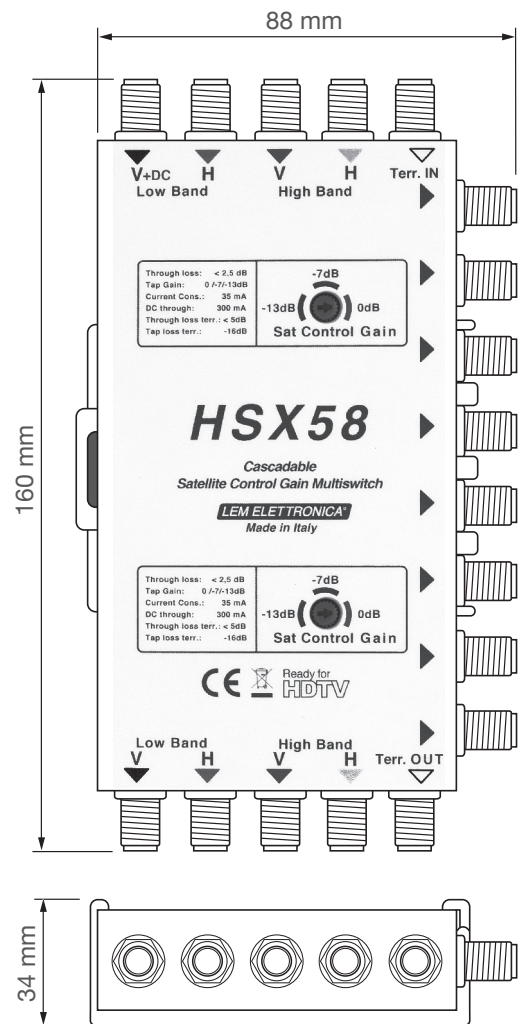


Installation is only permitted in dry rooms and upon a non combustible surface. Ensure that there is an adequate air circulation.



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.



ITEM CODE		HSX58	HS58/20	HSX58T
EAN CODE		8056045660596	8056045660480	8056045660602
TYPE		Cascadable	Cascadable	End
NUMBER OF IN/OUT		5 / 5	5 / 5	5 / 0
NUMBER OF TAPS		8	8	8
FREQUENCY BAND IF-SAT	MHz	950... 2150 MHz		
FREQUENCY BAND TERR. TV	MHz	5... 790		
TAP IF-SAT	dB	0/-7/-13	-21	0/-7/-13
THROUGH LOSS IF-SAT	dB	< 2,5	< 2,5	-
OUTPUT LEVEL MAX. IF-SAT	dBuV	100*	-	100*
SAT/TERR. TV SEPARATION	dB	≥ 50	≥ 50	≥ 50
TAP TV TERRESTRIAL	dB	-16	-21	-14
THROUGH LOSS TERR. TV	dB	< 5	< 4	-
RETURN PATH LOSS	dB	-16	-21	-14
CROSS-POLAR SAT ISOLATION	dB	> 32	> 32	> 32
RETURN LOSS	dB	> 10	> 10	> 10
SWITCHING SENSITIVITY 22KHz	mV	150	150	150
CONSUMPTION MAX.	mA	35	35	35
DIMENSIONS	mm	165 x 88 x 34	165 x 88 x 34	152 x 88 x 34

## Sat Control Gain Function for IF SAT amplifiers

By activating the **Sat Control Gain** trimmer you can select 3 different gain/attenuation levels on the HSX multiswitches taps. This feature makes the product versatile and the installation operations easier.

**Note: The TV Terr. taps attenuation remains constant.**



### Example (1) :

Network with 4 IF-SAT Taps + Terr., for 20 users.

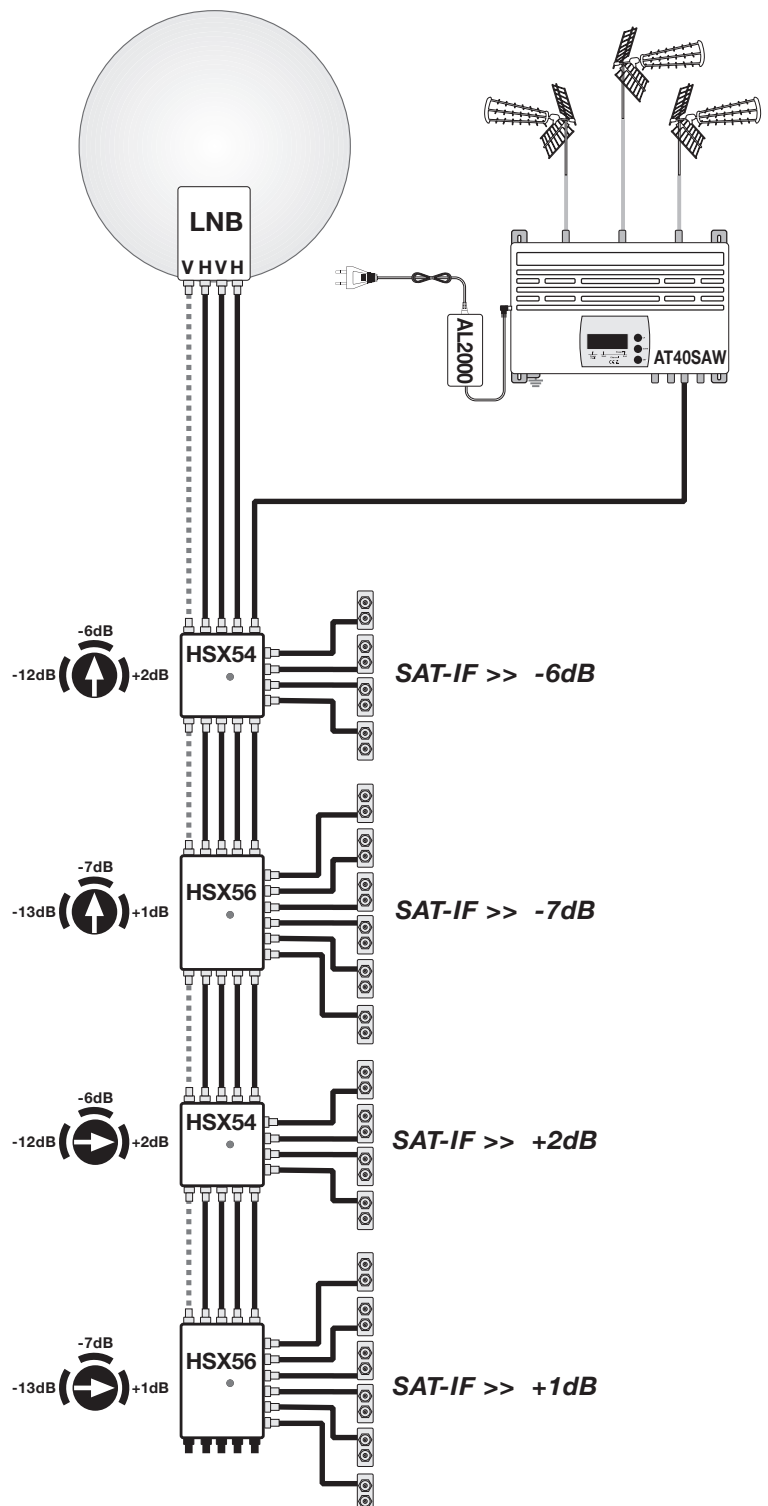
For installations with more than 4 5-cable Multiswitches there is usually no need to put a headend amplifier.

The LNB powering comes from the decoder through the **HSX54** and **HSX56** multiswitches.

If the power coming from the decoders is not enough to work the LNB you can add the AL1000 power supplier and the INS02 inserter between the LNB and the first multiswitch of the system on the Vertical line - Low Band.

**Note:**  
In this installation you can find:

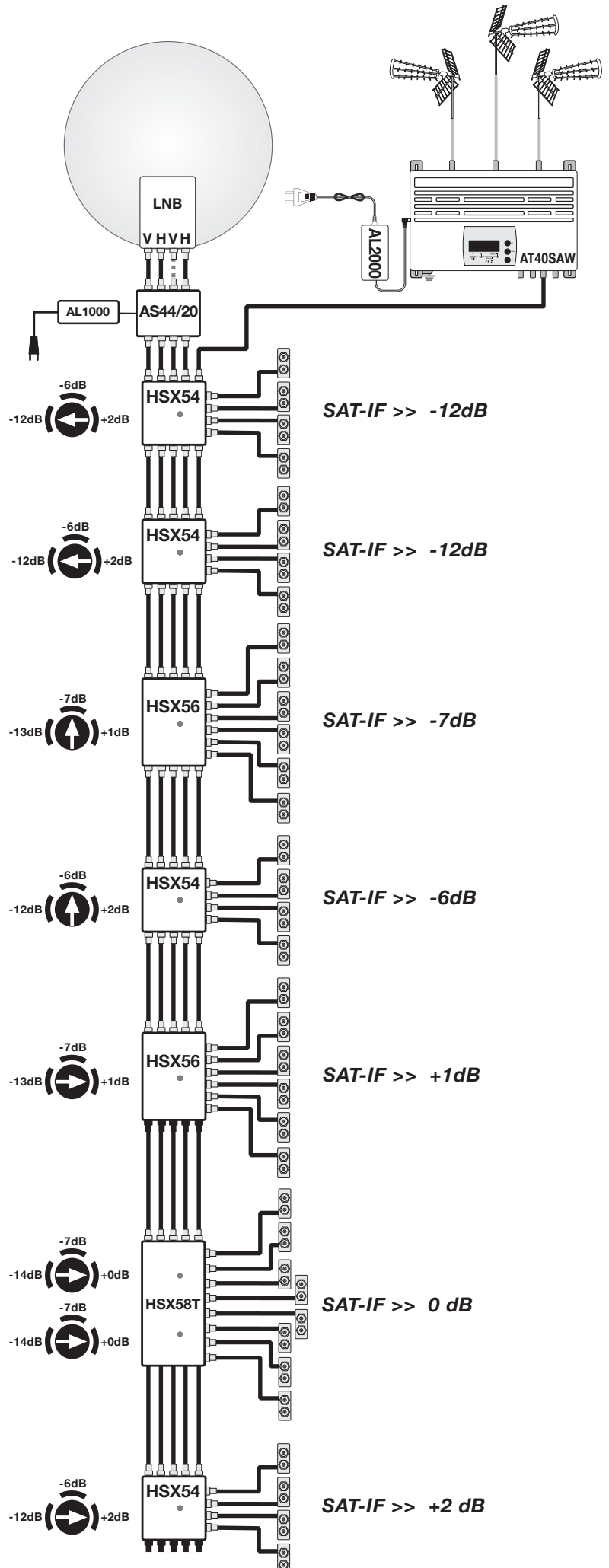
- 85 cm off-set SAT dish
- LNB quattro V-H/V-H
- Coax cable -38 dB / 100 ml a 2150 MHz
- n° 2 HSX54 (multiswitch 4 taps +2/-6/-12dB)
- n° 2 HSX56 (multiswitch 6 taps +1/-7/-13dB)
- n° 4 RCS75 insulated dummy loads
- 10 m coax cable between the LNB and the first multiswitch
- 4 m coax cable between the multiswitches
- 20 m coax cable for the taps



..... LNB power path



Always use 75 ohm **RCS75** insulated dummy loads.



**Example (2) :**

Network with 4 IF-SAT Taps for 36 users.

For big installations (with more than 4 5-cable Multiswitches) you need to put a headend amplifier (es. **AS44/20**), which takes care of the IF-SAT lines amplification separately.

The LNB powering comes from the amplifier on the Vertical Line - High Band (13V/22KHz).

The **Sat Control Gain** regulation offers an optimized distribution of the SAT-IF signals.

Note:  
In this installation you can find:

- 85 cm off-set SAT dish
- LNB quattro V-H/V-H
- Coax cable -38 dB / 100 ml a 2150 MHz

- n° 4 HSX54 (multiswitch 4 taps +2/-6/-12dB)
- n° 2 HSX56 (multiswitch 6 taps +1/-7/-13dB)
- n° 1 HSX58 (multiswitch 8 taps 0/-7/-14dB)

- n° 1 AS44/20 ( 20 dB amplifier)
- n° 1 AL1000 (15 VCC/1A power supplier)
- n° 4 RCS75 insulated dummy loads

- 10 m coax cable between the LNB and the first multiswitch
- 4 m coax cable between the multiswitches
- 20 m coax cable for the taps

..... LNB power path



Always use 75 ohm **RCS75** insulated dummy loads.

### Example (3) :

Network with 4 IF-SAT Taps + Terr. with different tap lengths.

The LNB powering comes from the amplifier on the Vertical Line - High Band (13V/22KHz).

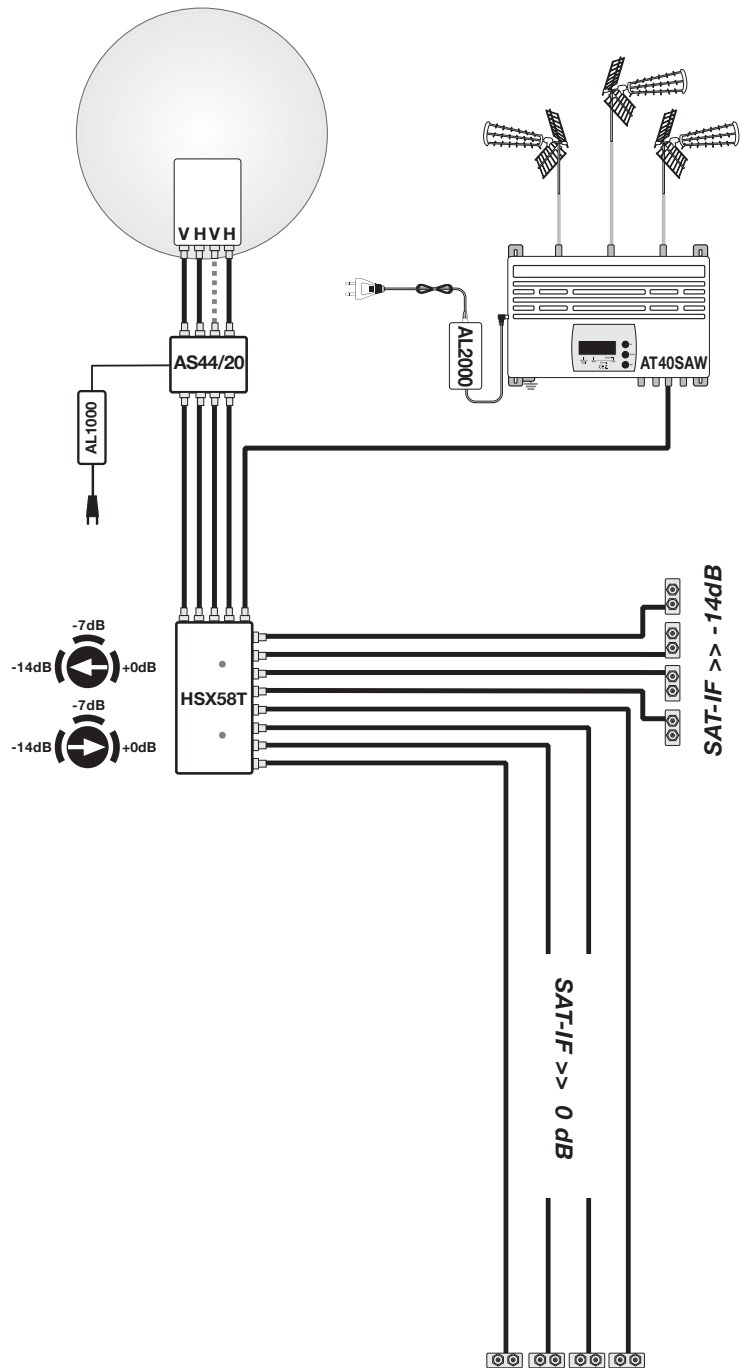
The **Sat Control Gain** regulation offers an optimized distribution of the SAT-IF signals.

Note:

In this installation you can find:

- 85 cm off-set SAT dish
- LNB quattro V-H/V-H
- Coax cable -38 dB / 100 ml a 2150 MHz
- n° 1 HSX58T (multiswitch 8 taps 0/-7/-14dB)
- n° 1 AS44/20 ( 20 dB amplifier)
- n° 1 AL1000 (15 VCC/1A power supplier)
- 10 m coax cable between the LNB and the first multiswitch
- 4 m coax cable between the multiswitches
- 20 m coax cable between the first group of 4 taps
- 50 m coax cable between the second group of 4 taps

..... LNB Power path



### WALL SUPPORT MOUNTING

1. Widen the plastic support as shown in the picture
2. Take the multiswitch out
3. Fasten the plastic support to the wall
4. Put the multiswitch back in by sliding it in the plastic support.