



## dCSS universal LNB

1 dCSS SAT output

### art. 13-210 LNB dCSS 32 porte



It allows the reception of digital signals of a satellite. Equipped with 1 dCSS output.

It can be used in two different modes:

- Dynamic mode: allows to distribute an unlimited number of transponders up to 32 users, independent of each other;
- Static mode: 32 frequencies of band 1 IF are assigned to a maximum of 32 transponders. The selected transponders can be distributed to an unlimited number of users.

The default programming mode is 'static' mode ('dynamic' mode on request).

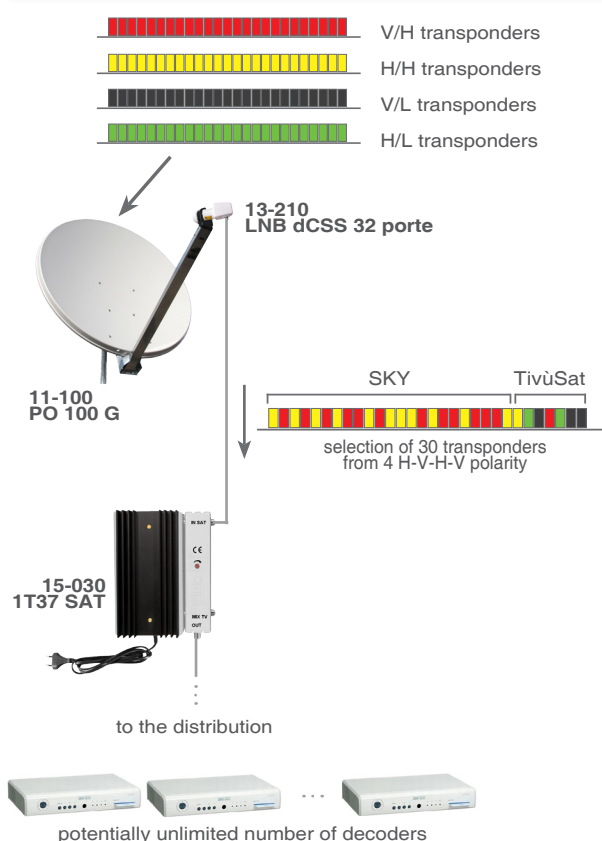
It can be reconfigured as required by the Programmer (art. 15-701 P-MSW dCSS), sold separately.

If the LNB is used in dynamic mode, connect to the output only decoders that support SCR/Sky standard (see frequency configuration table in dynamic mode on page 2).

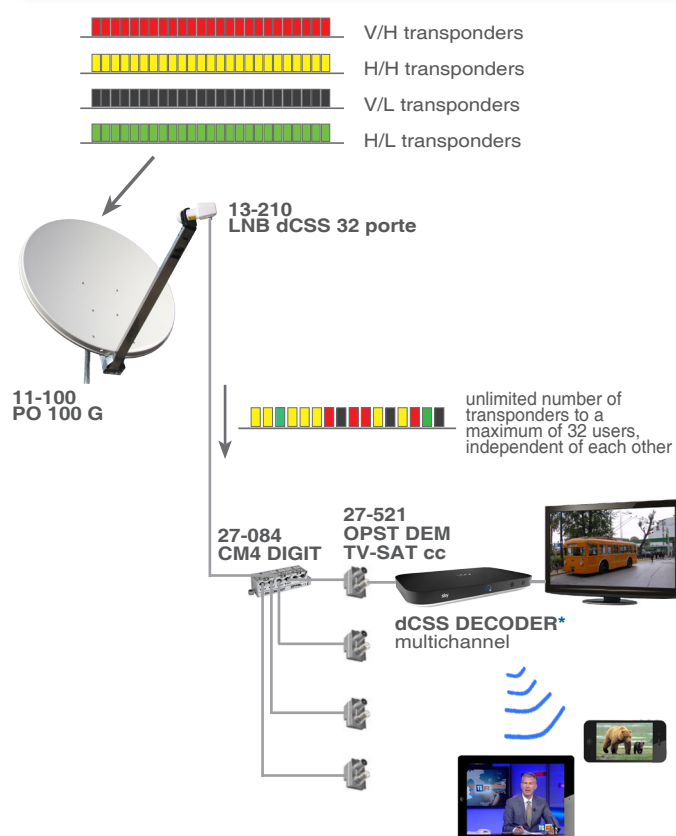
#### Characteristics

- Low phase noise DVB-S2 (HDTV) compliant
- Low noise figure
- Equipped with AGC (automatic gain adjustment)
- Very high cross polarization isolation
- Very high frequency stability
- Rubber cap to protect F connector

#### Example of application in static mode for the reception of a selection of SKY and TivùSat transponders



#### Example of application in dynamic mode for the satellite reception for a maximum of 32 users



\* e.g. SKY Q

Rev. 5 01.2023





## dCSS universal LNB

1 dCSS SAT output

**art. 13-210**

**LNB dCSS 32 porte**

### Example of dCSS frequency configuration in static mode

| Code                         | 13-210                              |
|------------------------------|-------------------------------------|
| Item                         | LNB dCSS 32 porte                   |
| No. of dCSS output           | 1                                   |
| Commutation dCSS output      | DiSEqC 1.x/DiSEqC 2.x               |
| Input frequency range        | MHz 10700 ~ 12750                   |
| Noise figure                 | dB 1 max                            |
| LO initial accuracy          | MHz $\pm 1.0$ max                   |
| LO temperature drift         | MHz $\pm 2.5$ max                   |
| Phase noise (@10 KHz)        | dBc/Hz - 80 max                     |
| Output gain (AGC)            | dB 55 min                           |
| Gain ripple                  | dB $\pm 0,75$                       |
| Image rejection              | dB 40 min                           |
| Cross polarization isolation | dB 22 min                           |
| Output VSWR                  | 2.5 : 1                             |
| IF channel bandwidth         | MHz 10 ~ 64 (36 default)            |
| Channel isolation            | dB 25 min                           |
| Current consumption @ 13,5 V | mA 400                              |
| Output impedance             | $\Omega$ 75                         |
| Outputs connectors           | screw F-type                        |
| Feed diameter                | mm 40                               |
| Dimensions (LxWxH)           | mm 130x98x88                        |
| Packaging dimensions (LxWxH) | mm 180x116x70                       |
| Packaging weight             | Kg 0,350                            |
| Fit temperature              | $^{\circ}\text{C}$ - 30 $\div$ + 60 |
| Compliant to                 | EN 55013, EN 55020                  |

| Tunable channels in 1IF band |             | Received transponders |             |          |
|------------------------------|-------------|-----------------------|-------------|----------|
| Channels                     | Freq. (MHz) | Name                  | Freq. (MHz) | Polarity |
| Ch. 1                        | 970         | TS53                  | 11785       | H        |
| Ch. 2                        | 1010        | TS56                  | 11843       | V        |
| Ch. 3                        | 1050        | TS57                  | 11862       | H        |
| Ch. 4                        | 1090        | TS58                  | 11880       | V        |
| Ch. 5                        | 1130        | TS59                  | 11900       | H        |
| Ch. 6                        | 1170        | TS62                  | 11958       | V        |
| Ch. 7                        | 1210        | TS63                  | 11977       | H        |
| Ch. 8                        | 1250        | TS64                  | 11996       | V        |
| Ch. 9                        | 1290        | TS66                  | 12034       | V        |
| Ch. 10                       | 1330        | TS67                  | 12054       | H        |
| Ch. 11                       | 1370        | TS69                  | 12092       | H        |
| Ch. 12                       | 1410        | TS75                  | 12207       | H        |
| Ch. 13                       | 1450        | TS77                  | 12245       | H        |
| Ch. 14                       | 1490        | TS82                  | 12341       | V        |
| Ch. 15                       | 1530        | TS83                  | 12360       | H        |
| Ch. 16                       | 1570        | TS86                  | 12418       | V        |
| Ch. 17                       | 1610        | TS88                  | 12466       | V        |
| Ch. 18                       | 1650        | TS124                 | 10992       | V        |
| Ch. 19                       | 1690        | TS125                 | 11013       | H        |
| Ch. 20                       | 1730        | TS52                  | 11766       | V        |
| Ch. 21                       | 1770        | TS12                  | 11432       | V        |
| Ch. 22                       | 1810        | TS60                  | 11919       | V        |
| Ch. 23                       | 1850        | TS10                  | 11393       | V        |
| Ch. 24                       | 1890        | TS3                   | 11258       | H        |
| Ch. 25                       | 1930        | TS121                 | 10930       | H        |
| Ch. 26                       | 1970        | TS157                 | 11642       | H        |
| Ch. 27                       | 2010        | TS158                 | 11662       | V        |
| Ch. 28                       | 2050        | TS89                  | 12475       | H        |
| Ch. 29                       | 2090        | TS93                  | 12576       | H        |
| Ch. 30                       | 2130        | TS153                 | 11565       | H        |

The transponders list may change depending on the user's needs and/or any provider updates.

### Example of dCSS frequency configuration in dynamic mode

| Channels | Freq. (MHz) | Standards |
|----------|-------------|-----------|
| Ch. 1    | 1210        | EN50494   |
| Ch. 2    | 1420        | EN50494   |
| Ch. 3    | 1680        | EN50494   |
| Ch. 4    | 2040        | EN50494   |
| Ch. 5    | 985         | EN50607   |
| Ch. 6    | 1050        | EN50607   |
| Ch. 7    | 1115        | EN50607   |
| Ch. 8    | 1275        | EN50607   |
| Ch. 9    | 1340        | EN50607   |
| Ch. 10   | 1485        | EN50607   |
| Ch. 11   | 1550        | EN50607   |
| Ch. 12   | 1615        | EN50607   |
| Ch. 13   | 1745        | EN50607   |
| Ch. 14   | 1810        | EN50607   |
| Ch. 15   | 1875        | EN50607   |
| Ch. 16   | 1940        | EN50607   |

