9730I

SCR

9760 / 9762
9760D / 9762D
9760I / 9762I

9750 / 9752
9750D / 9752D
9750I / 9752I

9740 / 9742
9740D / 9742D
9740I / 9742I

SCR   Single Cable Router

OLT   One Line Technology

SWM   Single Wire Multiswitch

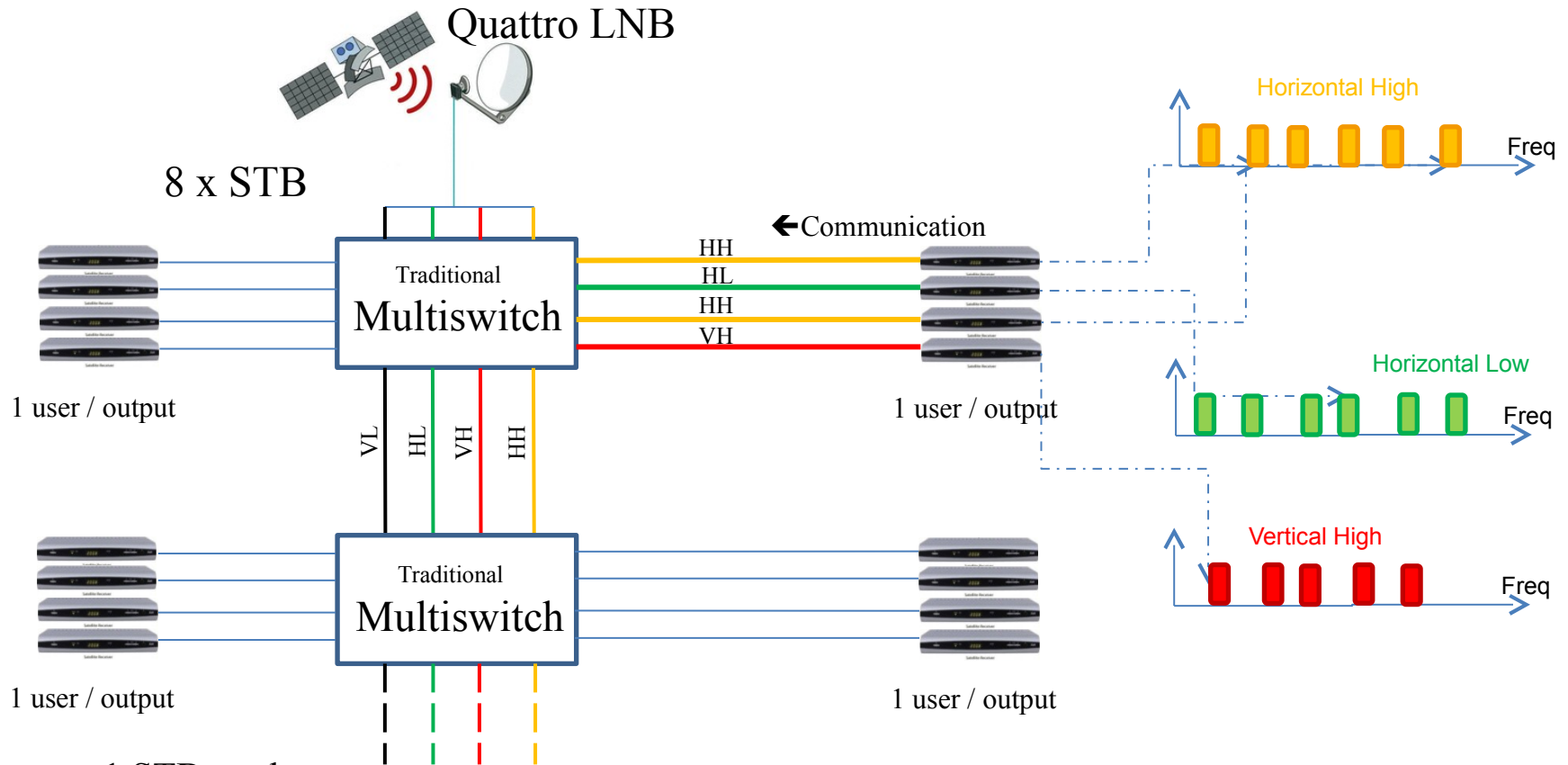**USCR**   Unicable Sat Channel Router

CSS   Channel Stacking Switch

SCD   Single Cable Distribution

Multiswitch example

A traditional multiswitch selects the entire polarity and send it to the STB
The STB selects the desired transponder.

Quattro LNB

8 x STB

Traditional
Multiswitch

Communication

HH
HL
HH
VH

1 user / output

VL HL VH HH

1 user / output

Horizontal High

Freq

Horizontal Low

Freq

Vertical High

Freq

Traditional
Multiswitch

1 user / output

1 user / output

1 STB per home.
If you also need a television in the kichen and bedroom or PVR in the home,
you will have to drill holes in the walls to add two extra cables.
Don't forget to change your multiswitch to a 3 times bigger multiswitch.
➔ Time consuming and EXPENSIVE.

SCR principle

The SCR Multiswitch is more intelligent.
The STB communicates with the SCR Switch to provide the desired transponder.
The SCR Multiswitch selects the desired transponder and convert it to a well-known frequency.
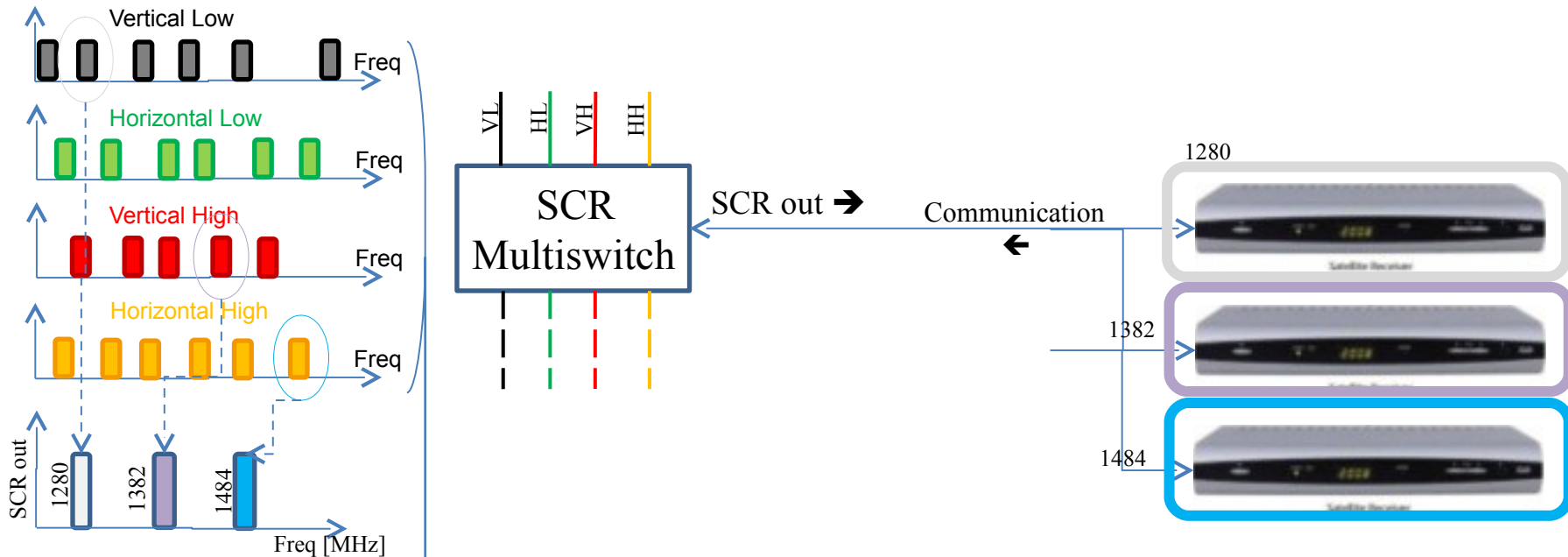The STB looks only to this well-known frequency.
The SCR Multiswitch is able to convert 3 or 4 transponders to 3 or 4 different well-known frequencies.
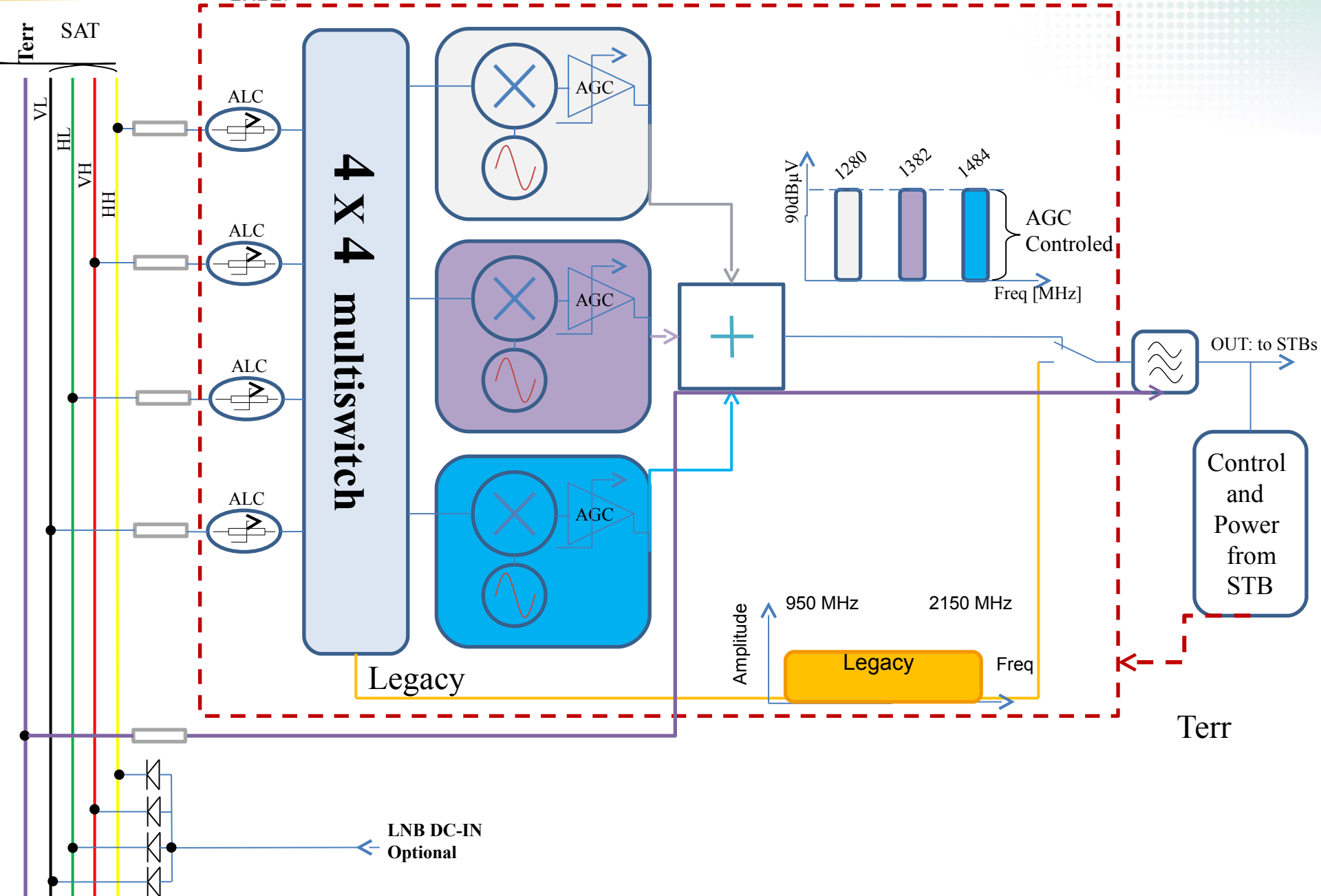
The well-known frequencies (user bands) are:
1280 / 1382 / 1484 MHz or 1210 / 1420 / 1680 MHz for the 3 users bands versions,
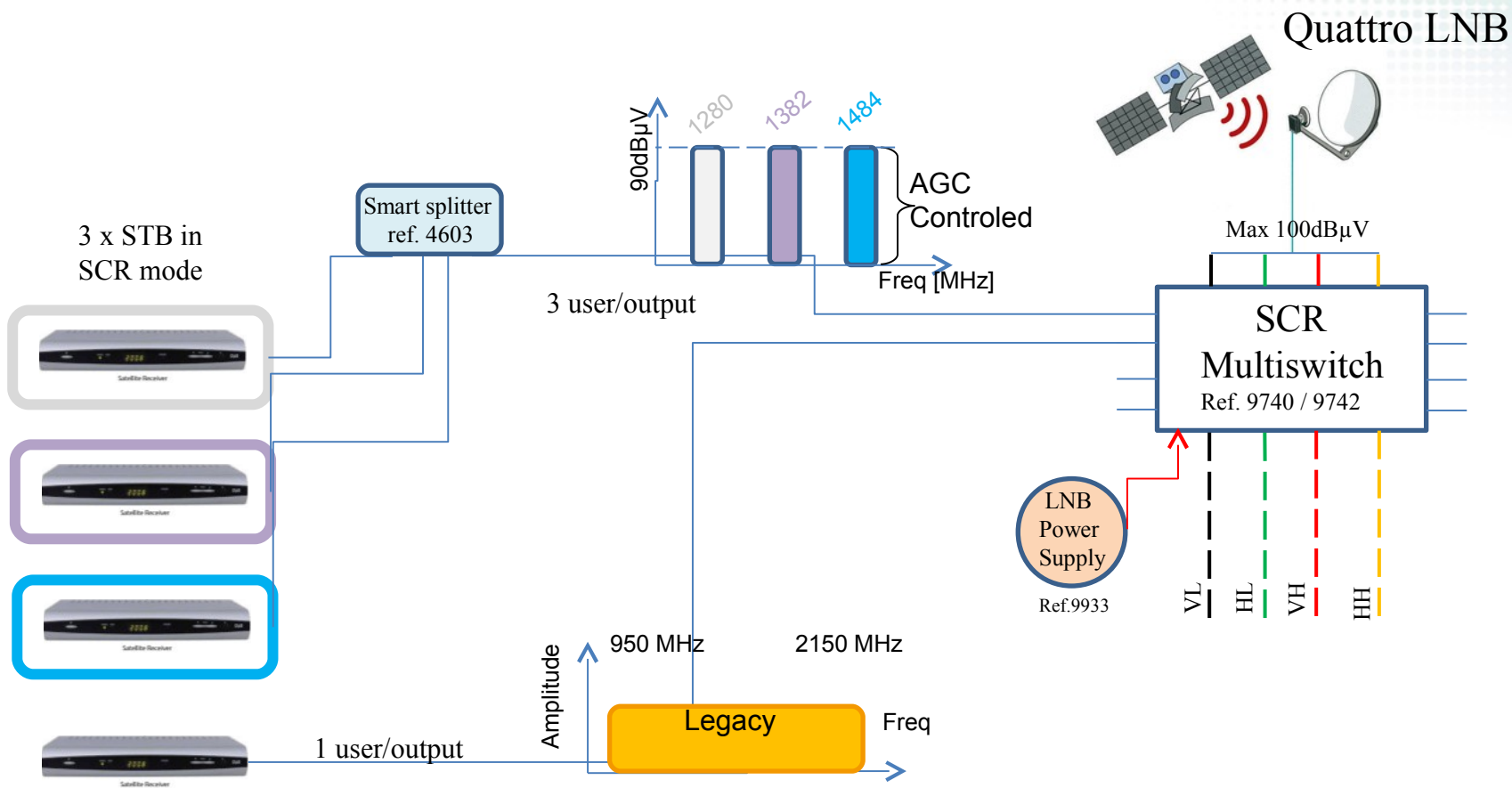1210 / 1420 / 1680 / 2040 MHz for the 4 users bands version.
The communication standards are EN50494 and TS 50607.

SCR principle

SCR principle

Quattro LNB

Smart splitter ref. 4603

1280 1382 1484

90dBµV

AGC Controled

Freq [MHz]

Max 100dBµV

3 x STB in SCR mode

3 user/output

SCR Multiswitch
Ref. 9740 / 9742

LNB Power Supply

Ref.9933

VL HL VH HH

Amplitude

950 MHz   2150 MHz

Legacy   Freq

1 user/output

Max. 12 x STB in SCR mode ref.9740
Max. 24 x STB in SCR mode ref.9742

Support EN50494/legacy

ALC: To avoid any saturation at the input.

AGC: The output is always 90dBµV = the max power allowed for every STBs.

This gives you the possibility to have long cables, taps and splitters.

Dynamic range: >30dB

Passive terrestrial: impossible to saturate.

LTE filtering: to avoid LTE interference.

Legacy possibility: people who want to stay with old generation of STB.

Cascadable: to connect multiple classical and SCR multiswitches.

LNB powering: If the LNB is not yet powered. Use ref. 9933.
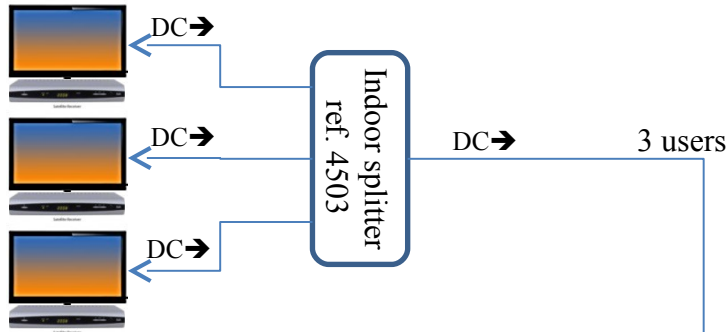
The power supply can be placed where you want in the installation.

LNB: when using a Quad LNB, use the power inserter ref. 9030 and power supply ref. 9933.
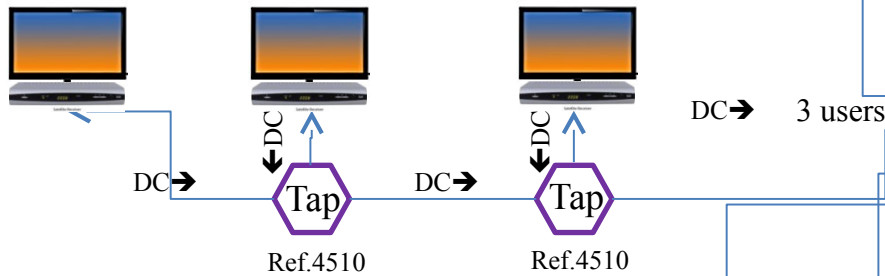
- In existing buildings where only 1 cable per home exists.
  It allows to have up to 3 receivers per home instead of 1 receiver per home.

- Where it is difficult to install multiple cables. Time consuming.

- In new buildings: lower installation costs and 3 times more capacity.

STB connection possibilities

1. splitter

Indoor splitter ref. 4503

DC➡

DC➡   3 users

2. Taps

Tap Ref.4510

Tap Ref.4510

DC➡   3 users

3. Smart splitter

Smart splitter ref. 4603

DC➡   3 users

4. Legacy

DC➡   1 user

Quattro LNB

SCR Multiswitch
Ref. 9740 / 9742

LNB Power Supply
Ref.9933
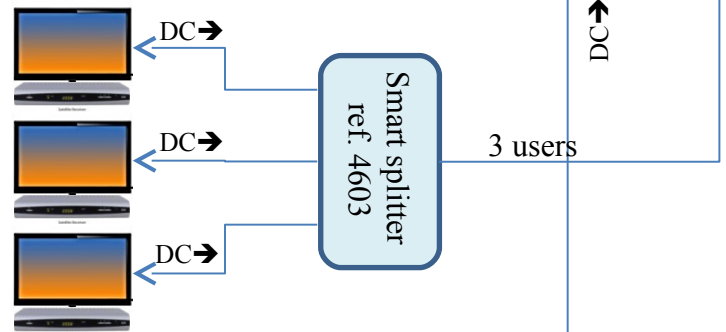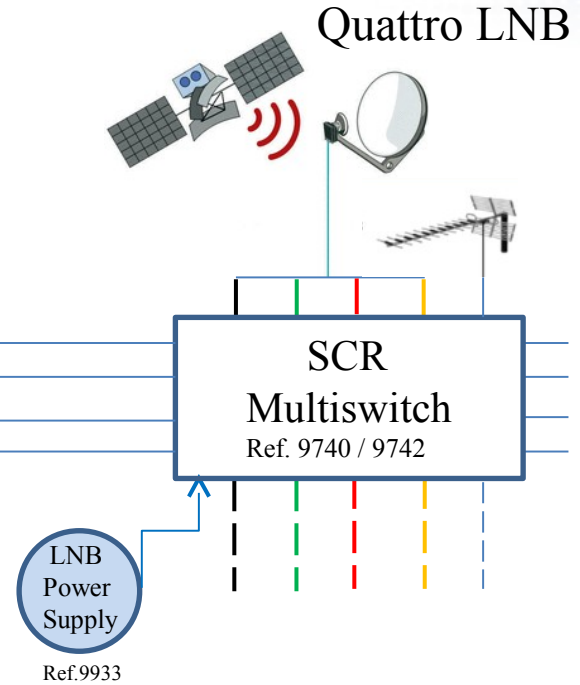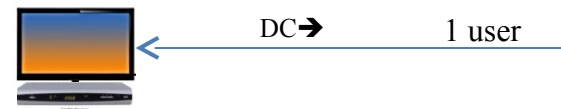
Smart splitter, why?

1: if 1 of the 3 STBs stays permanently in high voltage (sky STB)
➔ impossibility for the 2 other STBs to communicate with the SCR switch.

2: To prevent DiSeqC™ collision between the 3 STBs
The smart splitter captures the commands from the different set-top boxes
and places them sequentially to guarantee no collision will happen.

The SCR Multiswitch starts always in Legacy Mode. *
If 1 STB is set in SCR mode, this output immediately switch in SCR mode, the other outputs remain in Legacy.

The only possibility to restore in legacy is to disconnect the power from the STBs.

* *The products with "D" extension are an exception.*

SCR applications

6 x STB in SCR mode

Indoor splitter ref. 4503

3 user

Power Supply
Ref. 9933

Smart splitter ref. 4603

3 user

DC →

Destacker

6 users through 1 cable

DC →

Stacker

DC →
DC →

90dBµV

1280 1382 1484 3016 3118 3220

AGC Controled

Freq [MHz]

Ref. 9645 KIT

Quattro LNB

DC

SCR Multiswitch
Ref. 9740 / 9742

LNB Power Supply

Ref.9933

DC

DC

3 x STB in SCR and 1 legacy is also possible in this configuration

Max. 12 x STB in SCR mode ref.9740

Max. 24 x STB in SCR mode ref.9742

SCR applications

8 SAT inputs : 2 satellite positions

Quad LNB

When using a quad LNB, use the power inserter
ref. 9030 + power supply ref. 9933

Quattro LNB

Smart splitter ref. 4603

Power Inserter
Ref. 9930

DC

DC

LNB Power Supply
Ref.9933

DC

DC

3 user

3 user

SCR Multiswitch
Ref. 9750 / 9752

DC

DC

DC

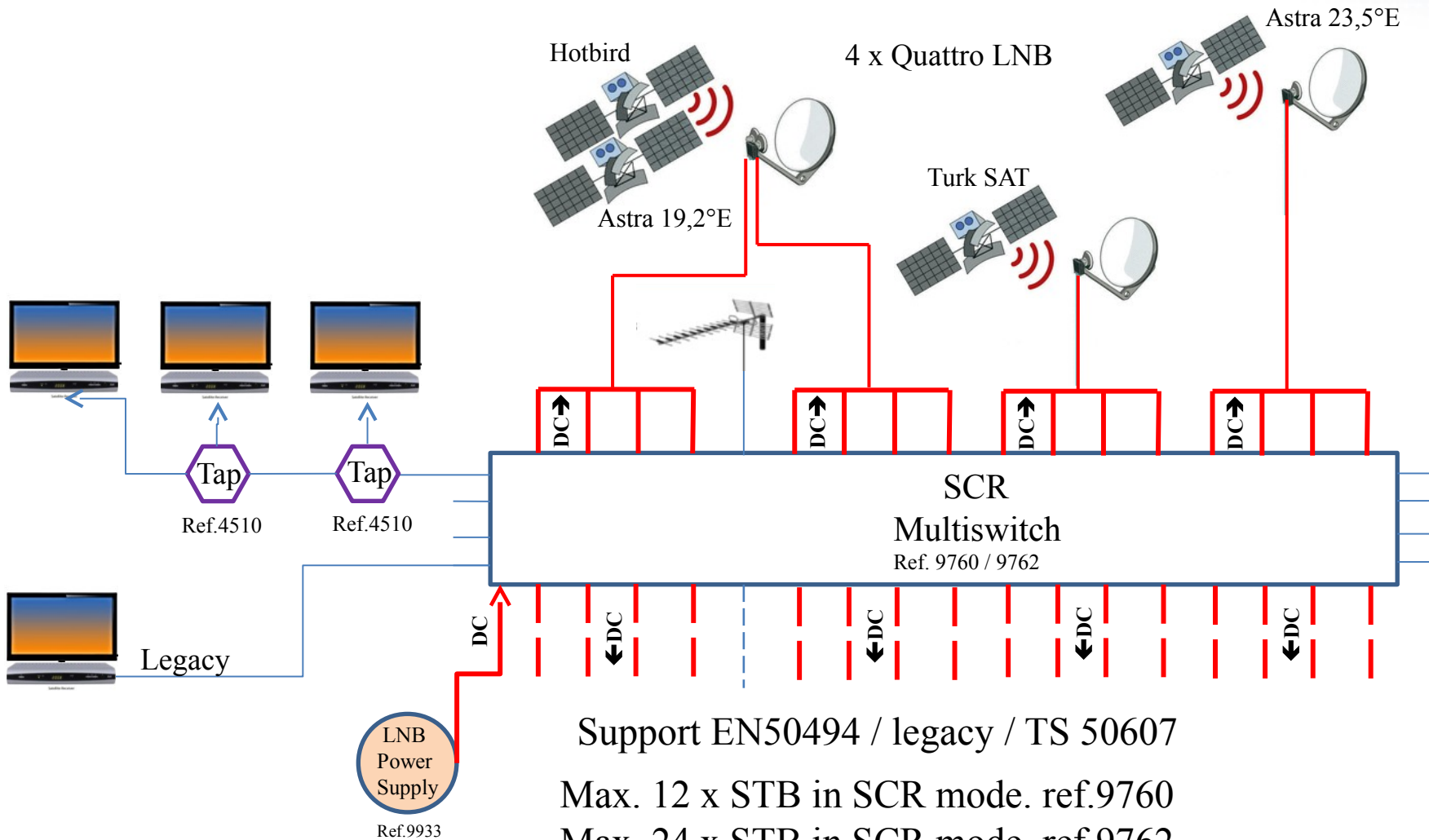LNB Power Supply
Ref.9933

Smart splitter ref. 4603
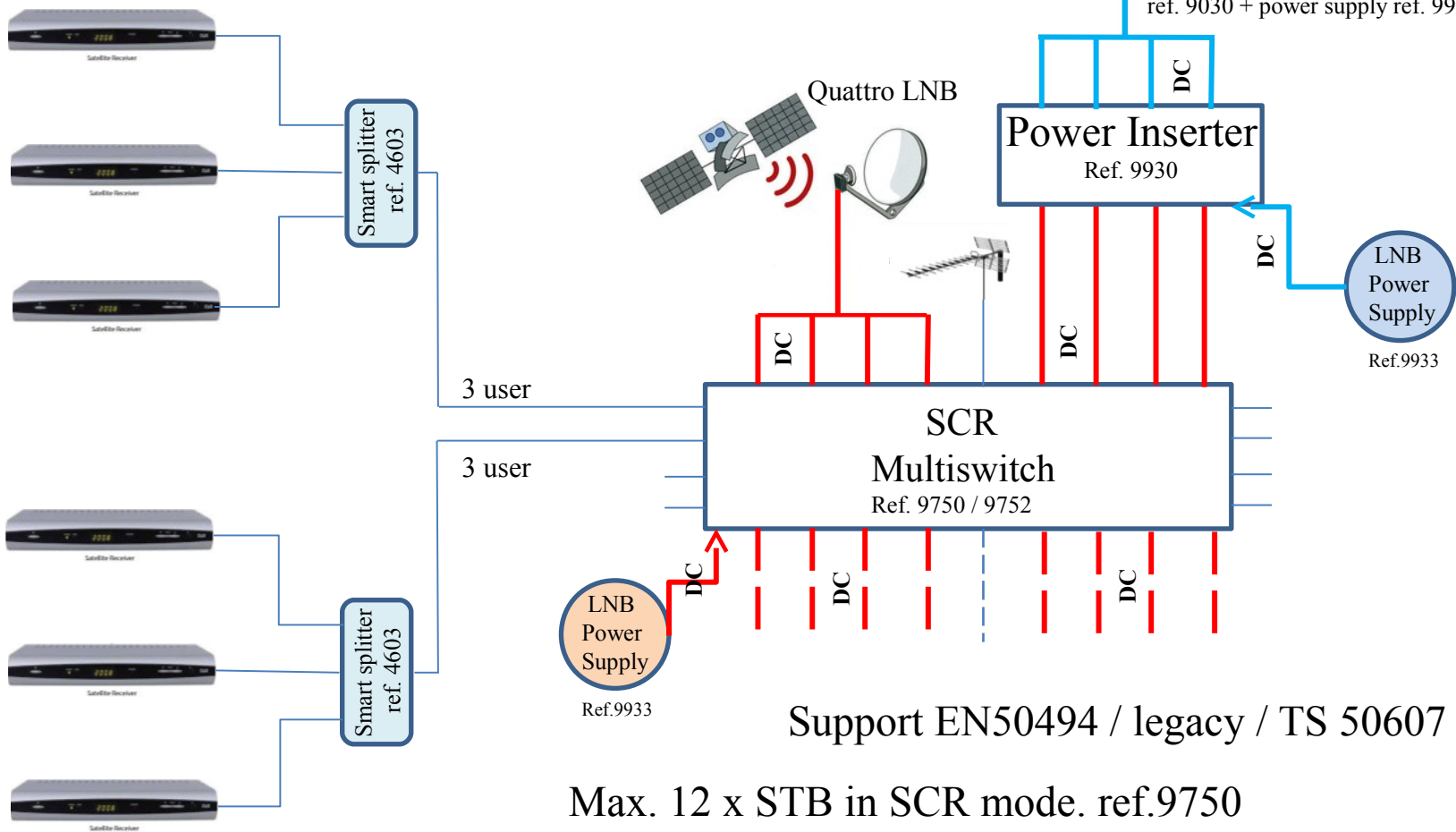
Support EN50494 / legacy / TS 50607

Max. 12 x STB in SCR mode. ref.9750
Max. 24 x STB in SCR mode. ref.9752

SCR applications

16 SAT inputs : 4 satellite positions

Hotbird

4 x Quattro LNB

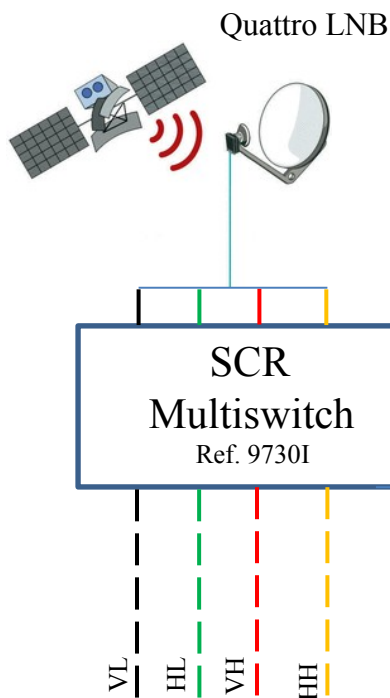Astra 23,5°E

Astra 19,2°E

Turk SAT

Tap
Ref.4510

Tap
Ref.4510

Legacy

SCR
Multiswitch
Ref. 9760 / 9762

DC

LNB
Power
Supply

Ref.9933

Support EN50494 / legacy / TS 50607

Max. 12 x STB in SCR mode. ref.9760
Max. 24 x STB in SCR mode. ref.9762

The programmer ref.9703 is specially designed for the German market.

The programmer is necessary to use with all the SCR switches
with "D" extension, e.g. 9740 D.

Legacy mode: LED ON
SCR/CSS mode: LED blinking
Terrestrial mode: LED OFF

OR

In contrast to all other SCR Multiswitches, the "D" extension products start in SCR mode.
If there is need to stay in Legacy mode, program only the required output in Legacy.
There is also a possibility to program only the Terrestrial mode.
An installer can program all the "D" SCR Multiswitches with only1 programmer.

SCR Multiswitch with 4 user bands

Ref.9730I

Quattro LNB

SCR
Multiswitch
Ref. 9730I

VL HL VH HH

OUT: to 4 STBs

90dBµV

1210 1420 1680 2040

AGC
Controled

Freq [MHz]
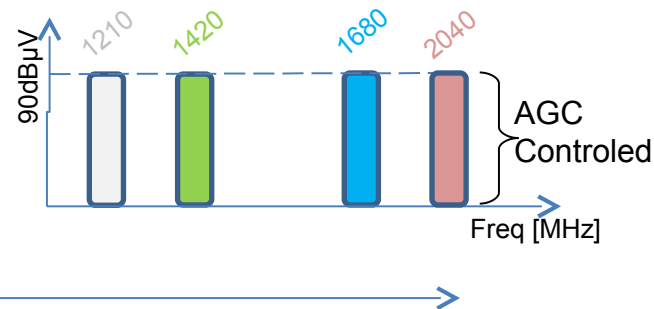
Support EN50494.
No Legacy possible.

SCR connection possibilities

1. Splitter

SCR Multiswitch
Ref. 9730I

Consumption Max 200mA

No DC

DC

Indoor splitter ref. 4504

DC

2. Taps

SCR Multiswitch
Ref. 9730I

Consumption Max 200mA

No DC

DC

Tap
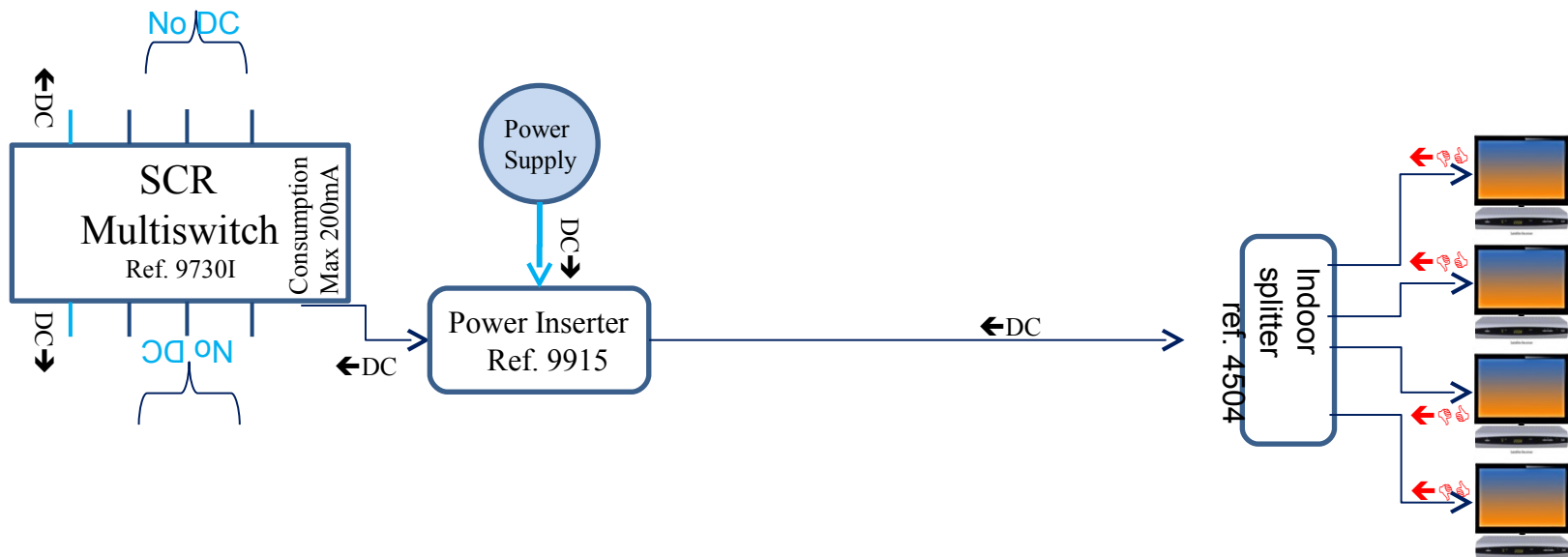Ref.4510

Tap
Ref.4510

Tap
Ref.4510

DC
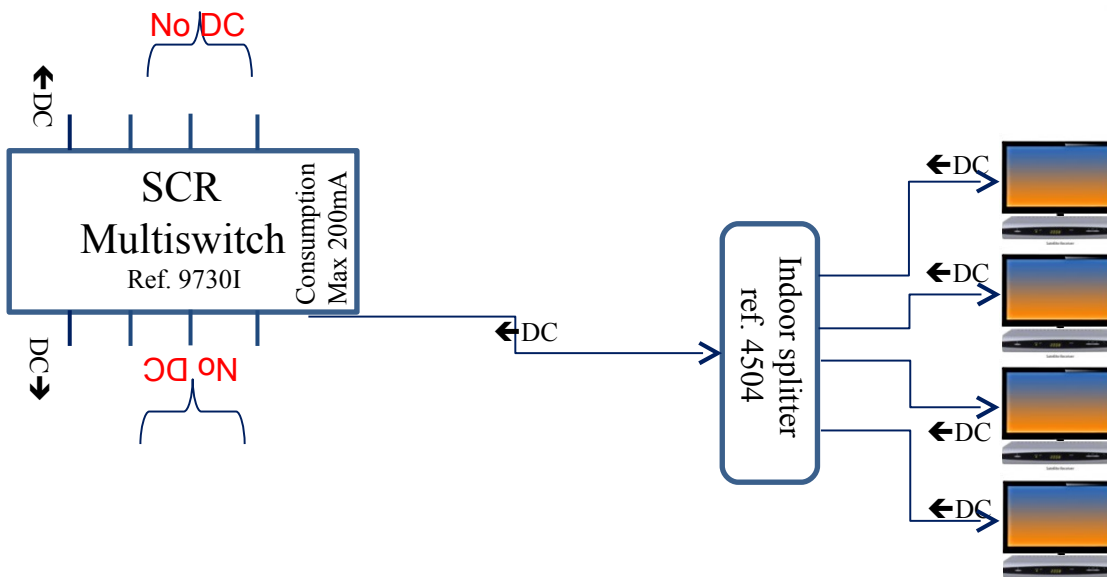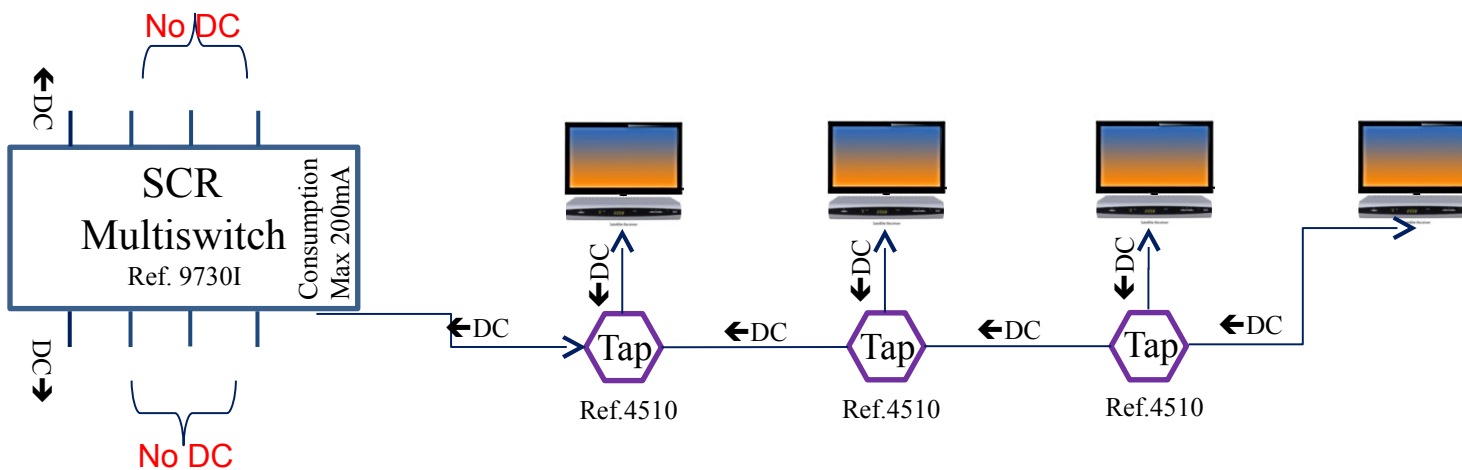
SCR Power inserter

This product is to be used in combination with ref. 9730I.

When do you need the power inserter ref. 9915?

- If 1 of the 4 STBs is not DC powerful enough or
- If the LNB consumes too much power.

No DC

DC

SCR
Multiswitch
Ref. 9730I

Consumption
Max 200mA

DC

No DC

←DC

Power
Supply

DC

Power Inserter
Ref. 9915

←DC

Indoor
splitter
ref. 4504

←
←
←
←

SCR	Sat Positions	Output	Userbands [MHz]	Terrestrial	Programmer
9740	1	4	1280 1382 1484	Cascadable	NO
9740 D			1280 1382 1484	Not cascadable	YES
9740 I			1210 1420 1680	Cascadable	NO
9742		8	1280 1382 1484	Cascadable	NO
9742 D			1280 1382 1484	Not cascadable	YES
9742 I			1210 1420 1680	Cascadable	NO
9750	2	4	1280 1382 1484	Cascadable	NO
9750 D			1280 1382 1484	Not cascadable	YES
9750 I			1210 1420 1680	Cascadable	NO
9752		8	1280 1382 1484	Cascadable	NO
9752 D			1280 1382 1484	Not cascadable	YES
9752 I			1210 1420 1680	Cascadable	NO
9760	4	4	1280 1382 1484	Cascadable	NO
9760 D			1280 1382 1484	Not cascadable	YES
9760 I			1210 1420 1680	Cascadable	NO
9762		8	1280 1382 1484	Cascadable	NO
9762 D			1280 1382 1484	Not cascadable	YES
9762 I			1210 1420 1680	Cascadable	NO
9730 I	1	1	1210 1420 1680 2040	NO	NO