



Welcome to the
Presentation of the

New Compact Video Headend

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WISIF Export Seminar / Manfred Jäger / April 2024

FALCON
COMPACT VIDEO HEADEND





Agenda

- Origin of the new Compact Video Headend
- Story behind the name and the logo – The way to the final design of the logo
- Main requirements for a compact video headend
- Basis and initial goals of the new Falcon Headend Family
- Product implementation - Solution
- Possible variants of models
- Possible applications
- Summarizing features and models – Outlook



Origin of the new Compact Video Headend

- Market: different markets with different requirements
- Goal: serving all of them with adequate solutions
- Idea: one platform for all solutions
- Implementation: based on rated technology paired with new features
- Result: new Compact Video Headend
- More than that: new Product Family



Story behind the name and the logo



Observe

Market**s** / Project**s**

FALCON



Grab

Market / Project



The way to the logo

- We had 20 different designs we asked people to choose from ... here are the TOP3 of them





Main technical requirements for a compact video headend

- **Reception** of different services from different sources
 - DVB-S/S2 & DVB-T/T2 & DVB-C
- **Transmodulation** in different standards
 - DVB-C & DVB-T / DVB-IP
- **Multiplexing** of services
 - Input (of the CI) & output
- **Processing FTA** and **encrypted** services
 - CI - supporting professional CAMs
- **Processing** Transport Streams
 - Stuffing / SID / NIT / LCN ...
- **Implementing** own video contents
 - Media Player
- **Setup** by an intuitive and easy operable way
 - DHCP server / web browser UI
- **Installation** in different environments
 - 19" Rack / cabinet / wall



Main commercial requirements for a compact headend

- **Compatibility** to the needs of the market
- **Conformity** to the requested standards of the market
- **Competitiveness** to the price determinations of the market



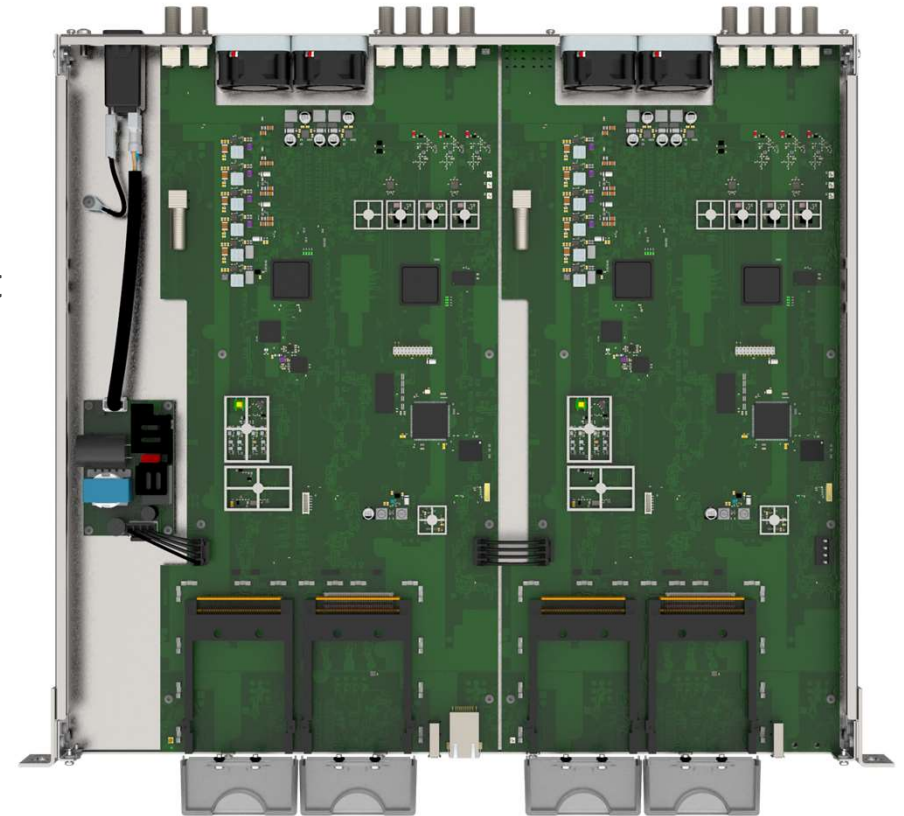
Basis and initial goals for the new FALCON Headend Family

- **SD Distribution** shutdown in Germany (5th of January 2025) and Austria (End of 2024)
- **Channels** more processing channels in one unit as in the Micro Headend
- **Housing** mountable in 19" racks as well as on walls
- **Pricing** more competitive prices
- **Initial costs** keep costs as low as possible / increasing efficiency as high as possible
- **Properties** keep experienced functionality and easy usage of the Micro Headend family
- **Time to market** pressure is set by a technology driven event (in Germany & Austria)
- **Quality** **Made by WISI**



Product Implementation

- 19" / 1HE housing, wall mountable with the same brackets
- Twin Module concept: leader & follower module
- Internal interoperability between the 2 modules, being 1 unit
- Rarely used connectors & interfaces at backside
 - RF inputs and outputs and main connector
- Frequently used connectors & interfaces at frontside
 - CI, Management, USB Interfaces for media player
- Integrated Switch Mode Power Supply





Solution

➤ Frontside



➤ Backside



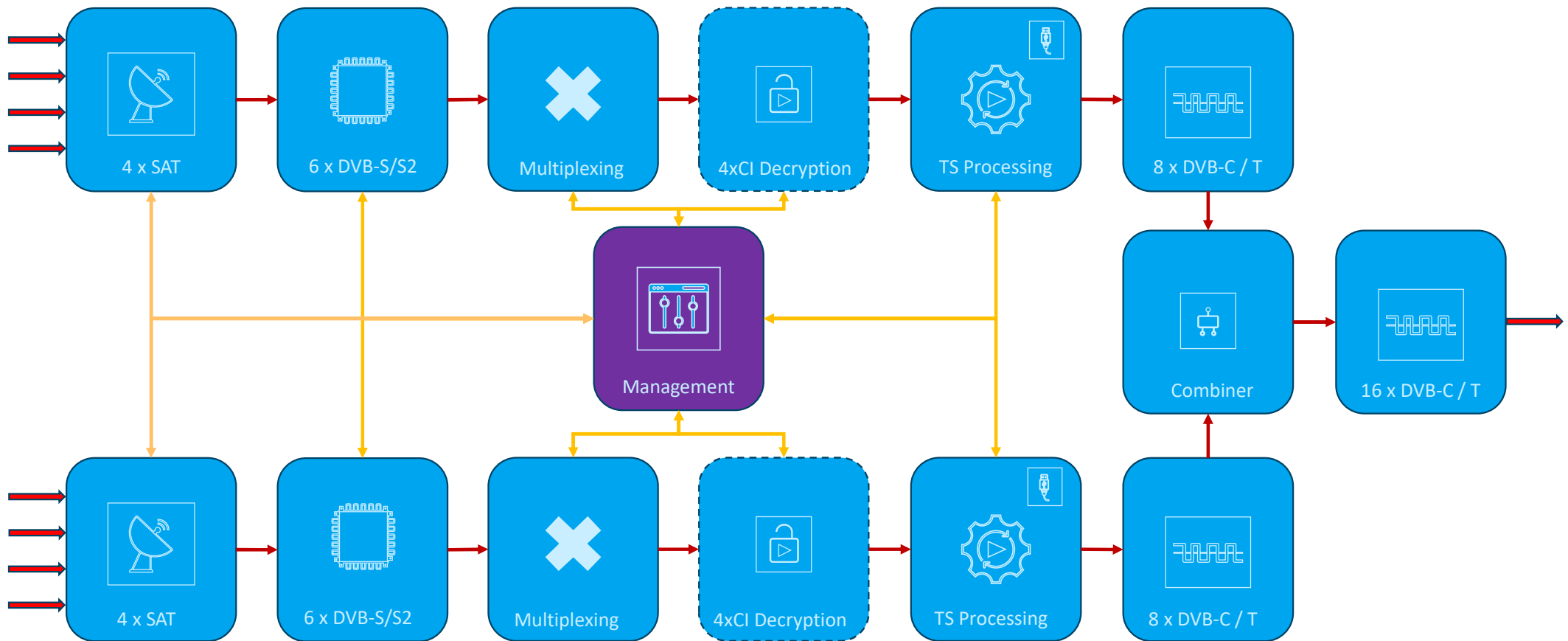


Possible variants of models

- **Satellite Input** -> **DVB-C / DVB-T Output** (with CI & FTA)
 - **GF10 12816 / GF10 12016**
- **Terrestrial / CATV Input** -> DVB-C / DVB-T Output (with CI & FTA)
 - **GF11 12816 / GF11 12016**
- **Mixed Input** -> DVB-C / DVB-T Output (with CI & FTA)
 - **GF12 12816 / GF12 12016**
- **Satellite Input** -> **IP-Streamer Output** (with CI & FTA)
 - **GF20 128S / GF20 120S**
- **Terr. / CATV Input** -> IP-Streamer Output (with CI & FTA)
 - **GF21 128S / GF21 120S**
- **Mixed Input** -> IP-Streamer Output (with CI & FTA)
 - **GF22 128S / GF22 120S**
- **Half equipped models** (only one module) as extension units
 - e.g. **GF10 06408 / GF10 06008**

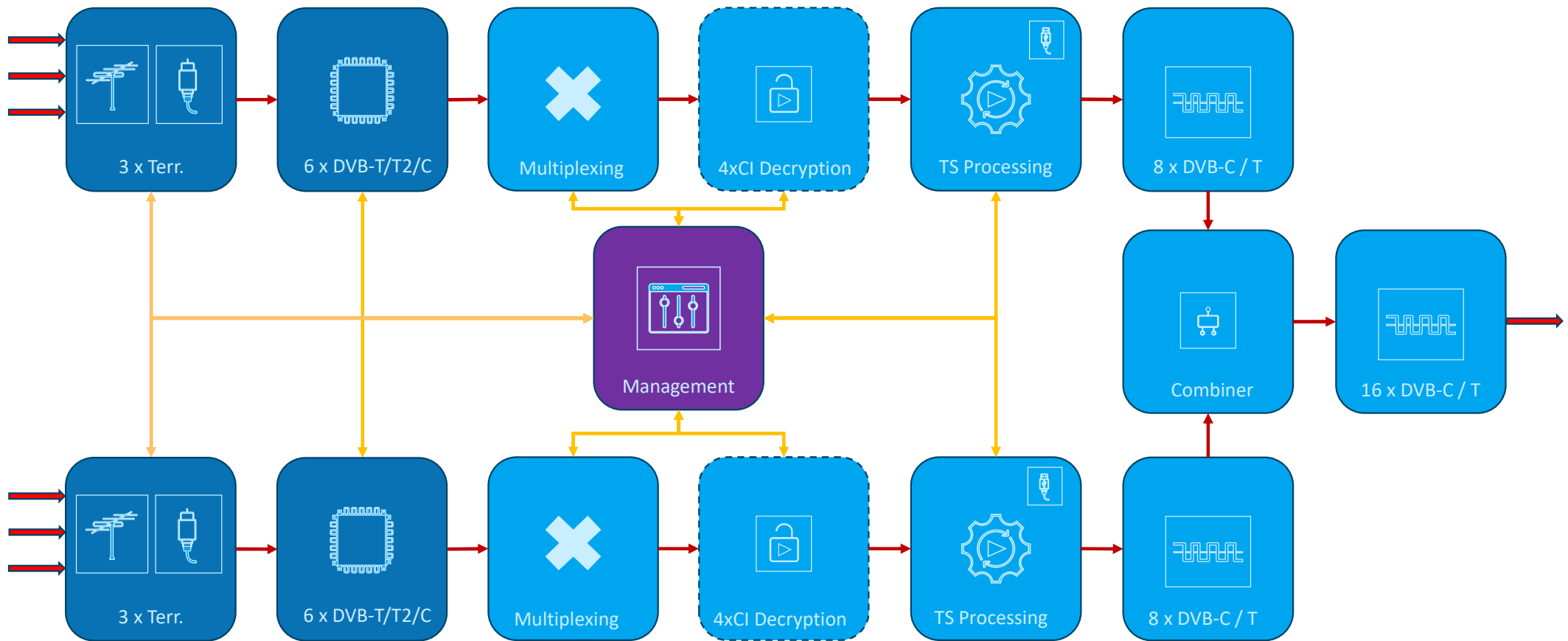


SAT Input models: GF10 12816 / GF10 12016 (FTA)



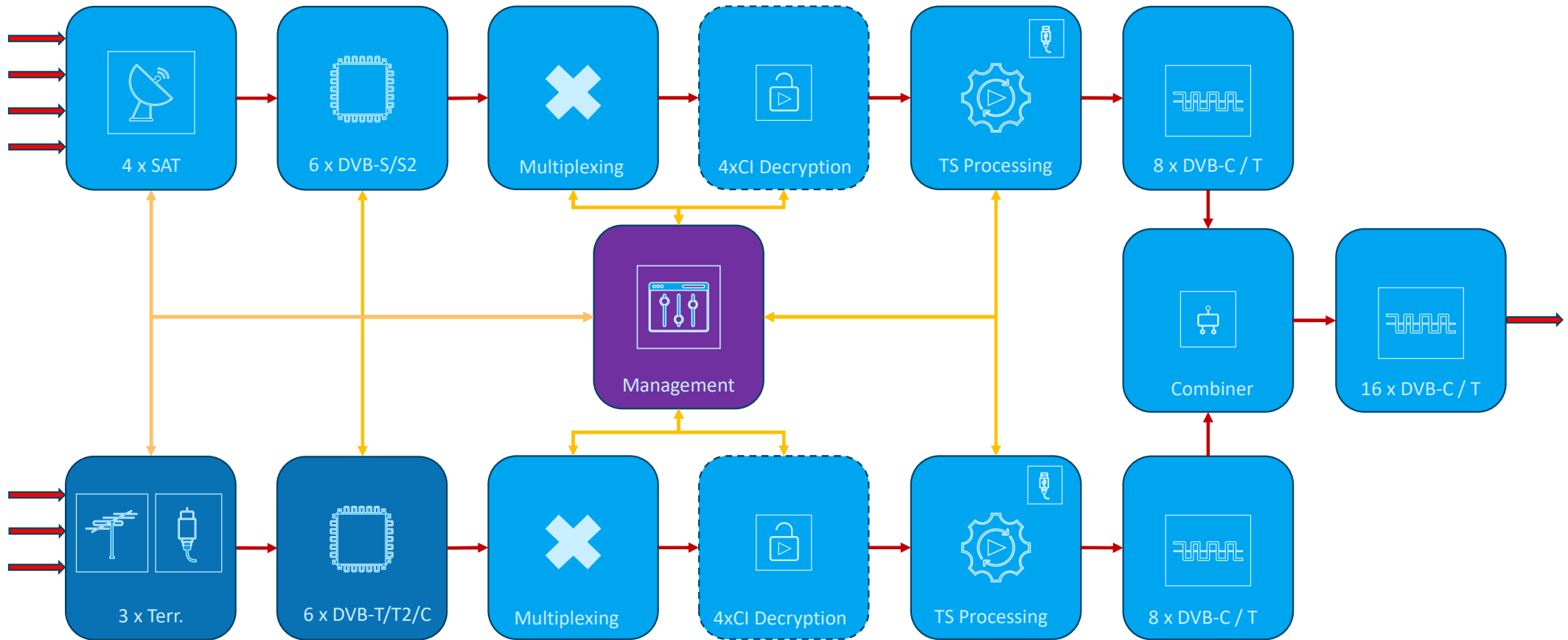


Terrestrial input models: GF11 12816 / GF11 12016 (FTA)



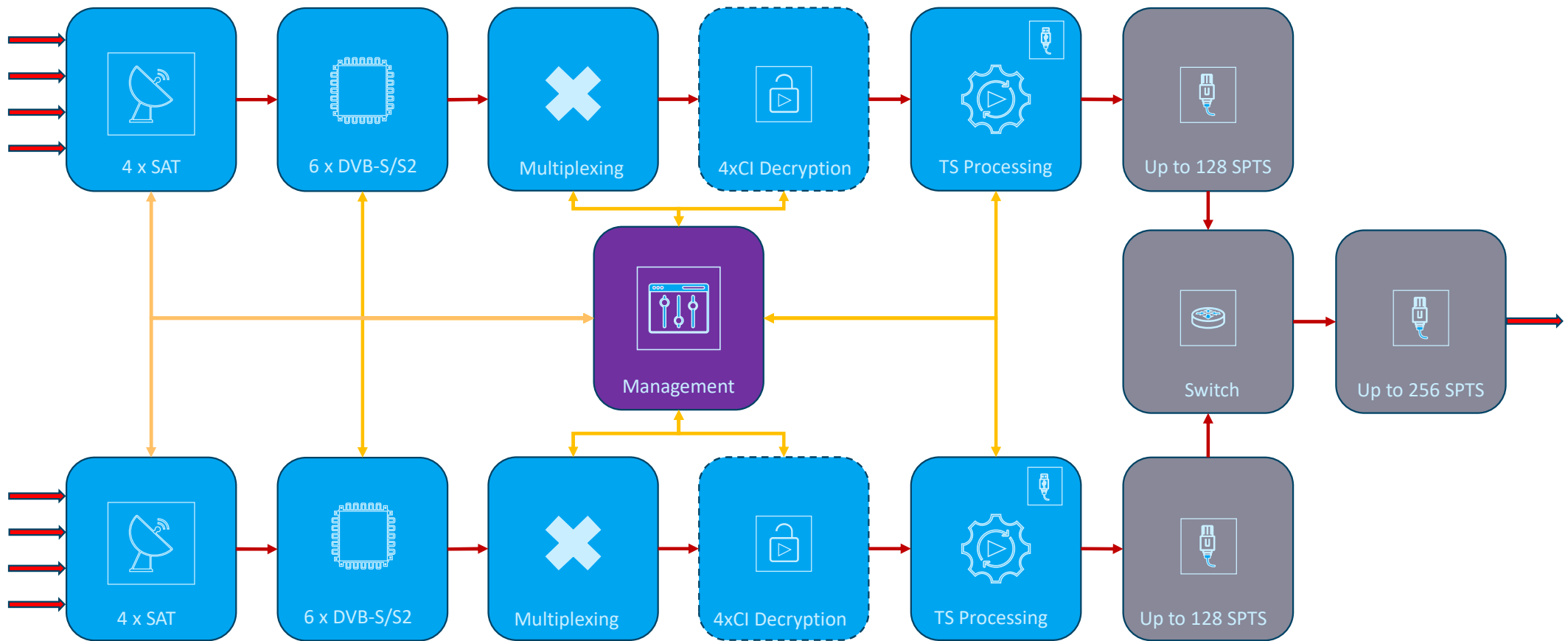


Mixed input models: GF12 12816 / GF12 12016 (FTA)



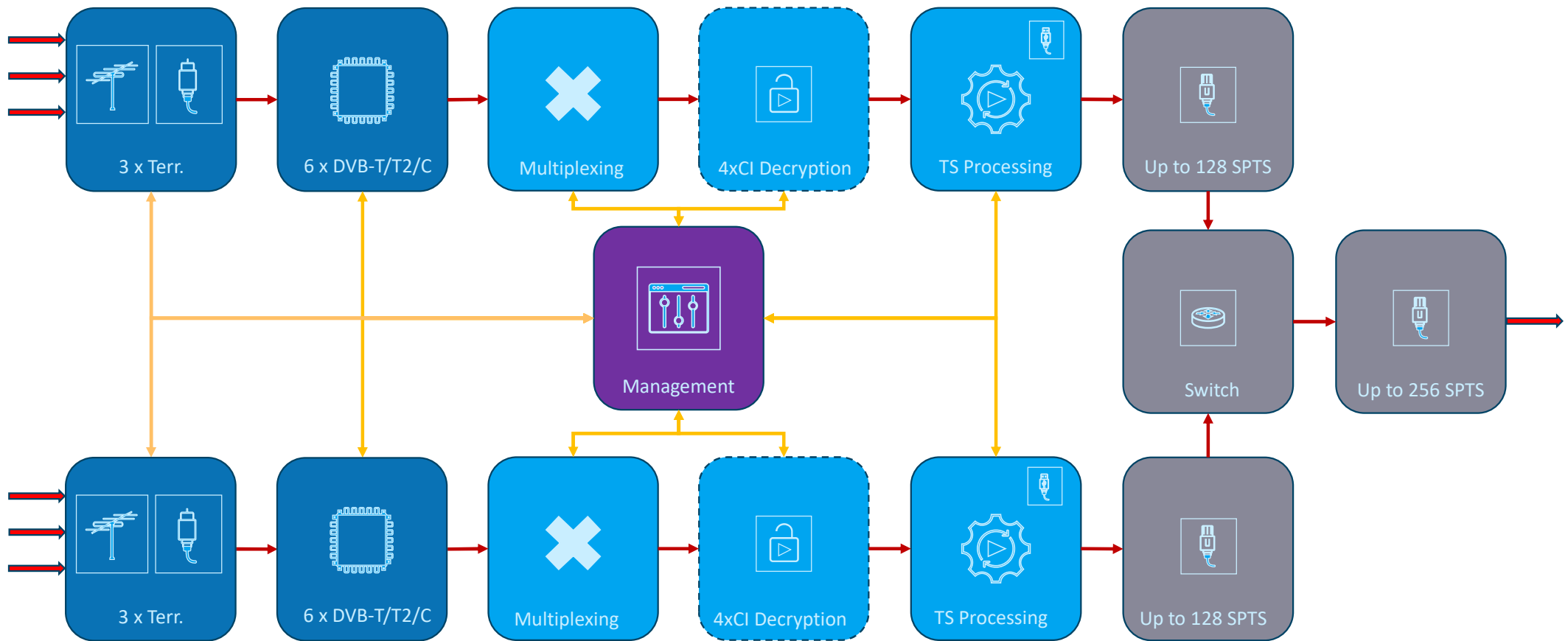


SAT input, IP-streamer models: GF20 128S / GF20 120S (FTA)



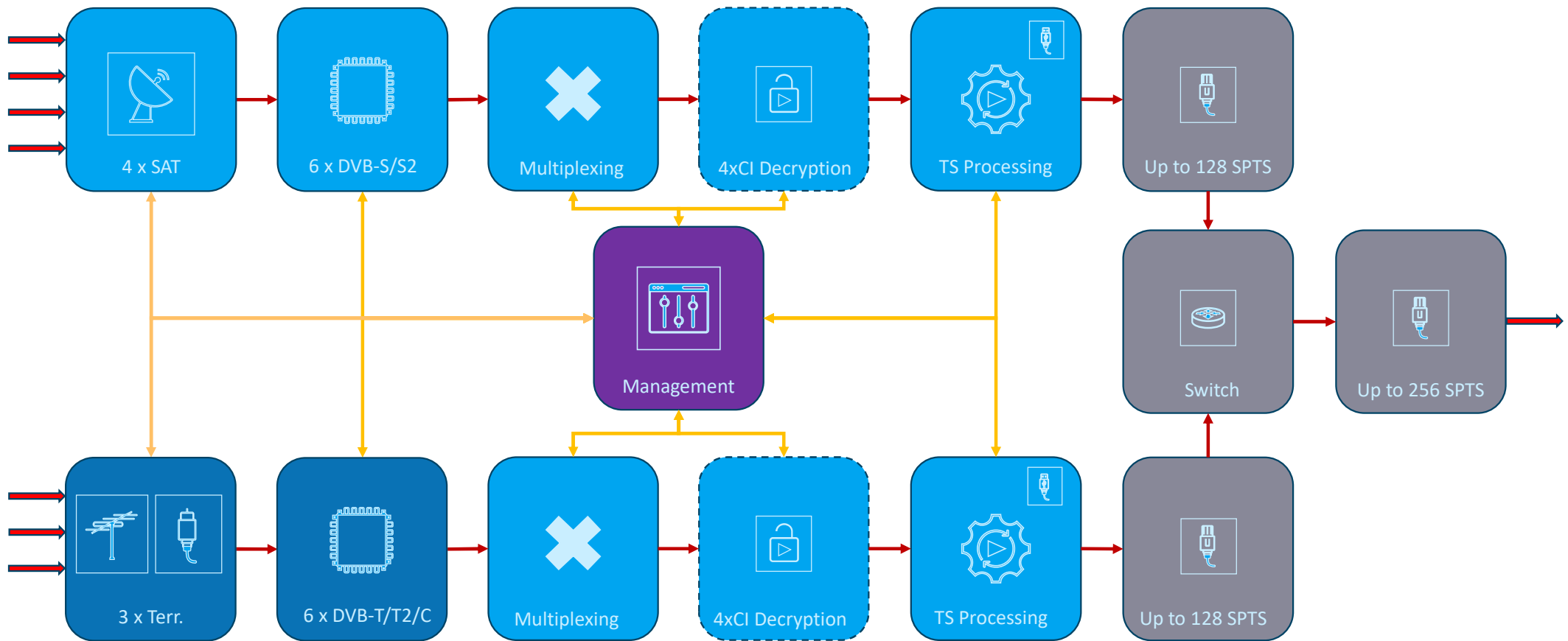


Terrestrial input, IP-streamer models: GF21 128S / GF21 120S (FTA)



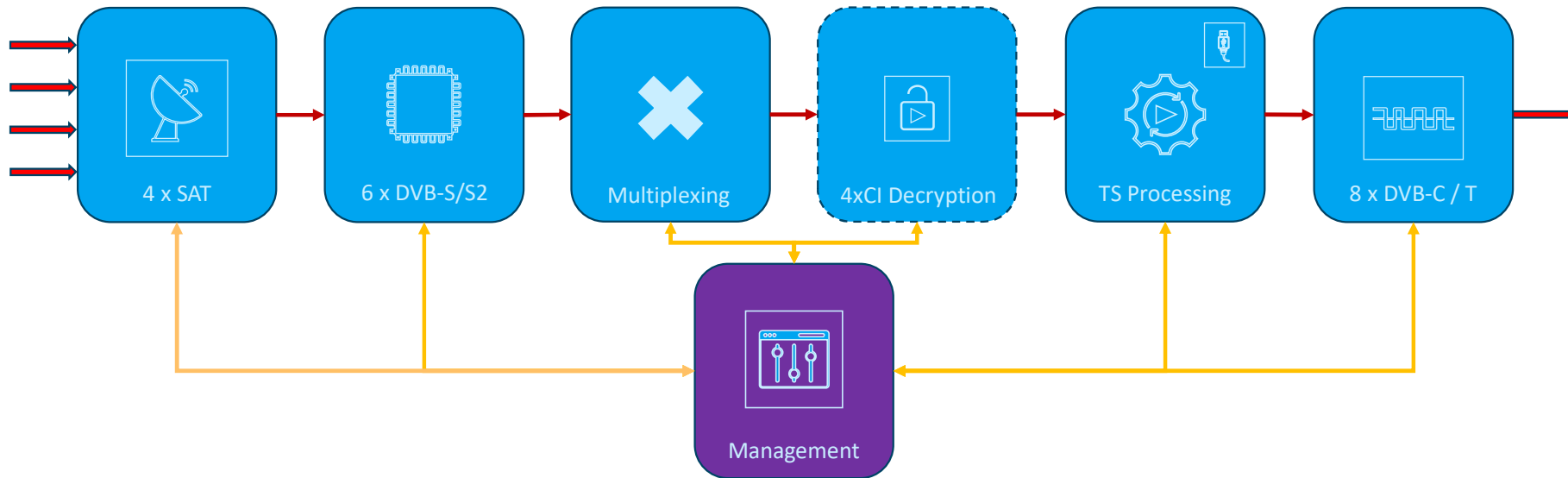


Mixed input, IP-streamer models: GF22 128S / GF22 120S (FTA)





SAT Input half equipped models: GF10 06408 / GF10 06008 (FTA)



- For the extension of full equipped models – e.g. Austria
- **GT10 120816 + GT10 06008** for processing 18 SAT-Transponder into 24 DVB-C channels with 8 x CI



Possible Applications

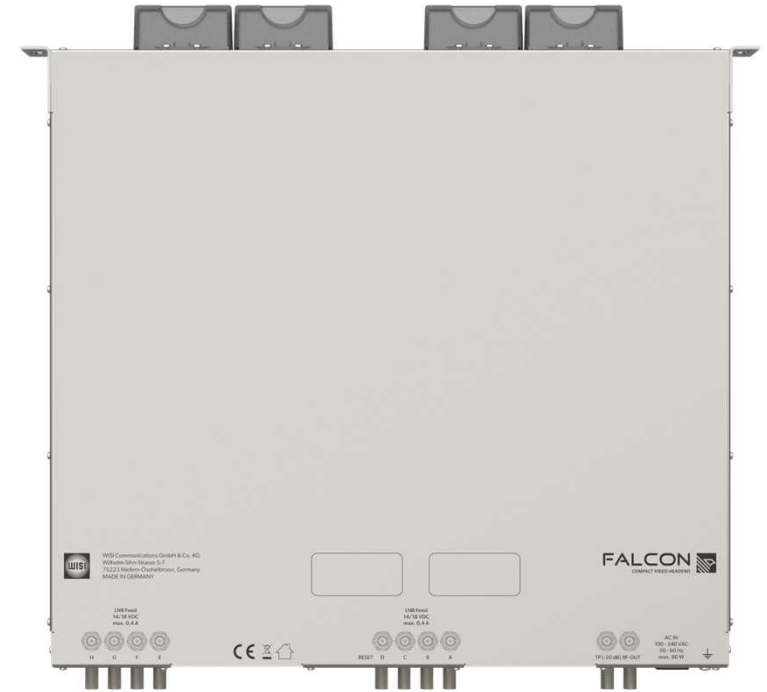
- Hotels and guesthouses
- Hospitals and clinics
- Nursing and retirement homes
- Holiday parks and campgrounds
- Office buildings and technology camps
- Cargo and cruise ships
- Multiple dwelling units ...





Summarizing Features

- Transmodulation of up to 12 input channels in 16 output channels
- Integrated multiswitch and DiSEqC 1.0 control
- Service multiplexing at the input (of the CI) and output
- Up to 8 CI interfaces as well as FTA models
- TS processing / NIT / LCN / dynamical PMT / PAT
- PID remapping in “Hotel” mode
- USB Interfaces for media player
- Setup by intuitive web user interface / DHCP server functionality





- Launching more models to serve more markets
- Need your valued experience and support
- Please give us your estimations and comments





Summarizing Models

Model	Reception Standard	Inputs		Input Channel		CI Slots	MUX	Output Standard	Output Channels	Media Player	Mounting		Expected Quantities		Target Price	Comments
		SAT	TERR	SAT	TERR						Wall	19"	Q4/2024	2025		
TRANSMODULATOR																
Satellite reception																
GF10 12016	DVB-S/S2	8	-	12	-	-	✓	DVB-C/T	16	2x USB	✓	✓				
GF10 12816	DVB-S/S2	8	-	12	-	8	✓	DVB-C/T	16	2x USB	✓	✓				
Satellite reception with 1 board																
GF10 06008	DVB-S/S2	4	-	6	-	-	✓	DVB-C/T	8	1x USB	✓	✓				
GF10 06408	DVB-S/S2	4	-	6	-	4	✓	DVB-C/T	8	1x USB	✓	✓				
Terrestrial / CATV reception																
GF11 12016	DVB-T/T2/C	-	6	-	12	-	✓	DVB-C/T	16	2x USB	✓	✓				
GF11 12816	DVB-T/T2/C	-	6	-	12	8	✓	DVB-C/T	16	2x USB	✓	✓				
Mixed reception																
GF12 12016	DVB-S/S2 + DVB-T/T2/C	4	3	6	6	-	✓	DVB-C/T	16	2x USB	✓	✓				
GF12 12816	DVB-S/S2 + DVB-T/T2/C	4	3	6	6	8	✓	DVB-C/T	16	2x USB	✓	✓				
IP-STREAMER																
Satellite reception																
GF20 120S	DVB-S/S2	8	-	12	-	-	✓ (IN)	DVB-IP	256 SPTS	2x USB	✓	✓				
GF20 128S	DVB-S/S2	8	-	12	-	8	✓ (IN)	DVB-IP	256 SPTS	2x USB	✓	✓				
Terrestrial / CATV reception																
GF21 120S	DVB-T/T2/C	-	6	-	12	-	✓ (IN)	DVB-IP	256 SPTS	2x USB	✓	✓				
GF21 128S	DVB-T/T2/C	-	6	-	12	8	✓ (IN)	DVB-IP	256 SPTS	2x USB	✓	✓				



Thank you

For your participation & attention

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The Falcon flies on