

Falcon

Compact Video Headend

Receive. Process. Distribute.

WISI

100 YEARS

wisigroup.com

Falcon

From Signal Source to End Device

Transmodulation of up to 12 satellite transponders (DVB-S/S2) or terrestrial DVB-T/T2 and CATV DVB-C receive channels into up to 16 selectable DVB-C or DVB-T output channels, or up to 256 SPTS IP streams. Additionally, encoding and processing of up to 8 HDMI signals into DVB-T, DVB-C, and IP.

01
Source
DVB-S/S2, DVB-T/T2, DVB-C, HDMI

02
Pre-Processing
Demodulation
Encodierung

03
Decryption
Up to 8 CI slots for professional CAMs

04
Processing
Multiplexing
Modulation
Streaming

05
Distribution
Coaxial Networks
IP Networks

Models featuring CI slots can be equipped with up to 8 CAMs for centralized service decryption. Input multiplexing at the CI interfaces ensures optimal utilization of CAM capacities: programs from different satellite transponders or terrestrial channels can be bundled and routed to a single CAM. The integrated switching matrix simplifies the assignment of connected polarization planes to the respective receive tuners without requiring additional external equipment—saving rack space, material costs, and installation time.

Thanks to the supplementary output multiplexing feature, output channels can be flexibly configured with custom program line-ups, fully utilizing the available bandwidth of the respective transmission standard. Furthermore, external content such as video sequences can be injected directly into the data streams via USB interfaces, while logos, QR codes, or text can be seamlessly overlaid onto the HDMI signals.



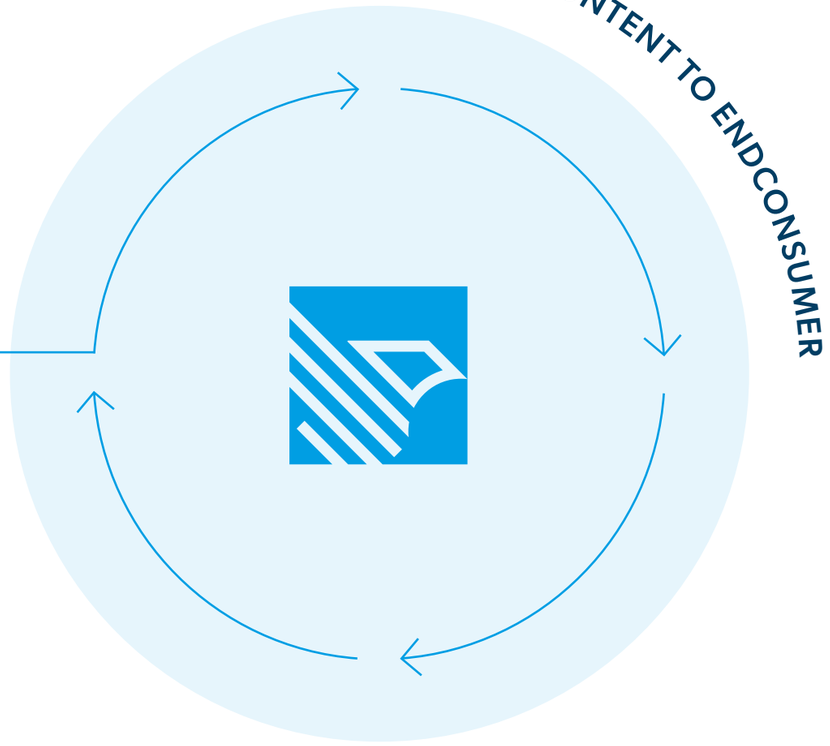
SAP & M3U
Channel lists are automatically available to end devices via SAP protocol or as M3U playlists.

Media Player
Custom video content can be injected directly into the output data streams via USB or LAN.

Hotel Mode
PID remapping keeps Service IDs stable - no retuning required when channel line-ups change.

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Applications



Wherever high-quality content must be centrally processed and distributed across multiple rooms, FALCON demonstrates its strengths: **compact, cost-effective, and easy to install.**

Hospitality

Hotels | Theme Parks | B&Bs | Campsites

Health Care & Care Facilities

Hospitals | Clinics | Nursing Homes

Commercial & Residential

Office Buildings | Apartment Buildings

Sports & Leisure

Stadiums | Sports Bars

Maritime

Cruise Ships | Cargo Ships

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Product Range

Three product lines, one shared operating principle:
Receive, process, distribute.
The difference lies in the input signal and the output format.



GF10

Transmodulator

Satellite (DVB-S/S2) → DVB-C or DVB-T

Transmodulation of 8 or 12 satellite transponders into up to 16 DVB-C or DVB-T output channels. Ideal for existing coaxial networks.

GF10 06008 | GF10 06408 | GF10 12016 | GF10 12816



GF20

Satellite IP Streamer

Satellite (DVB-S/S2) → IP

IP processing of 12 DVB-S/S2 transponders into up to 256 SPTS streams for modern IP-based distribution networks.

GF20 120S | GF20 128S



GF21

Terrestrial IP Streamer

Terrestrial / CATV (DVB-T/T2/C) → IP

IP processing of 12 DVB-T/T2/C channels into up to 256 SPTS streams for modern IP-based distribution networks.

GF21 120S | GF21 128S



GF32

HDMI Encoder / Modulator / Streamer

HDMI -> DVB-C or DVB-T & IP

Processing of 4 or 8 HDMI signals into 2 or 4 DVB-C or DVB-T channels and MPTS streams, or 4 or 8 SPTS streams.

GF3242H | GF3284H

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Product Benefits

01

Flexibility

- Diverse signal sources – satellite, terrestrial, HDMI
- Multiple output standards – DVB-C, DVB-T, IP
- CI compatibility – supports all CAM decryptions
- Universal mounting – for 19“ racks or wall installation

02

Cost-Efficiency

- Internal multiswitch – no external wiring required
- Models without CI – highly cost-effective solutions
- Input multiplexing – efficient CAM utilization
- Hotel Mode – no retuning required after service changes

03

Commissioning

- Easy installation – in 19“ racks or on the wall
- Easy connection – via integrated DHCP server
- Easy programming – via intuitive web interface
- Easy configuration – via saved presets

04

Reliability

- Integrated monitoring functions
- Complete reconfiguration after interruptions
- Generation of log files and diagnostic data
- Remote access for all data and updates

Proven technology, reimagined

The FALCON family combines widely recognized and proven WISI signal processing technology - born from decades of experience in reception and distribution - into a compact and future-proof device concept.

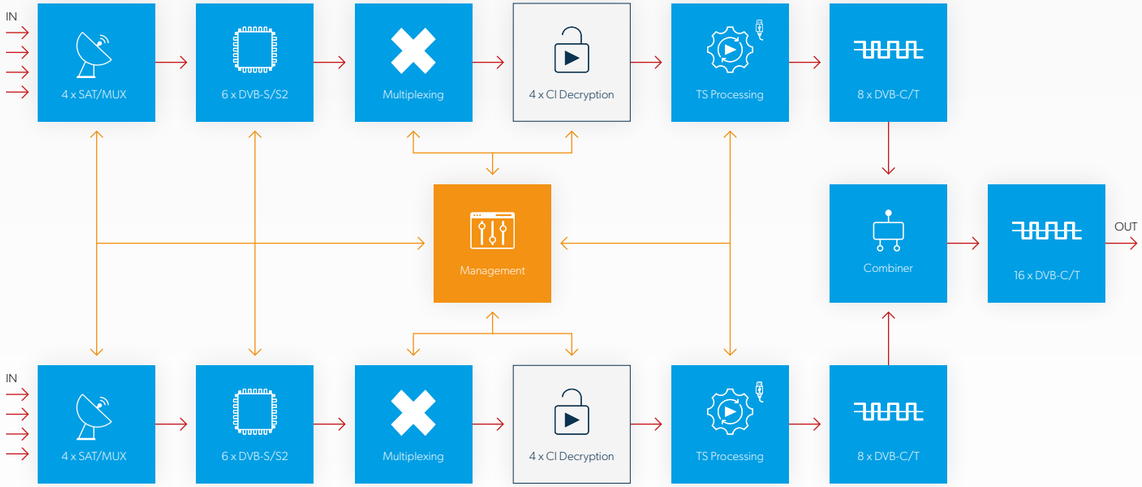
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Transmodulator

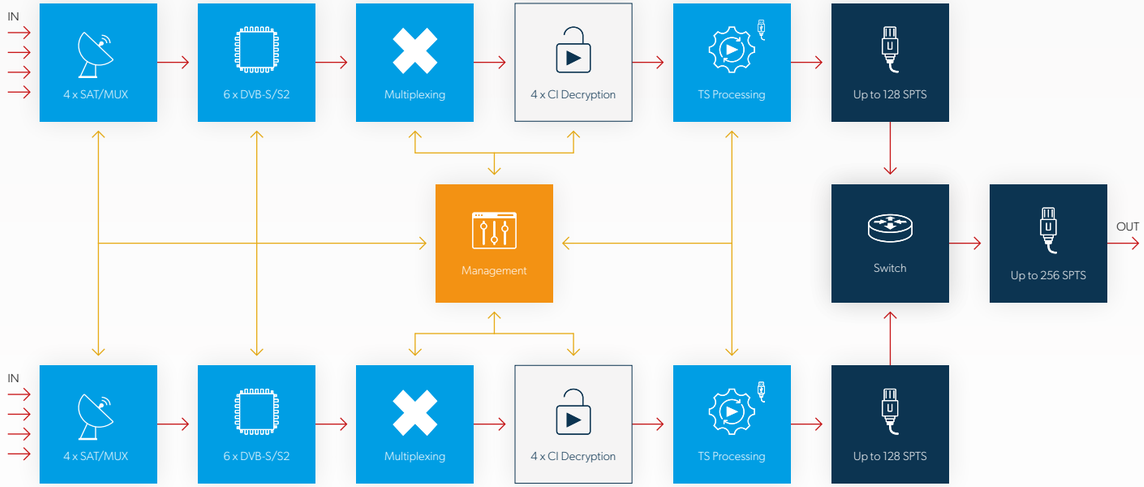
GF1012816 / GF1012016



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Satellite IP Streamer

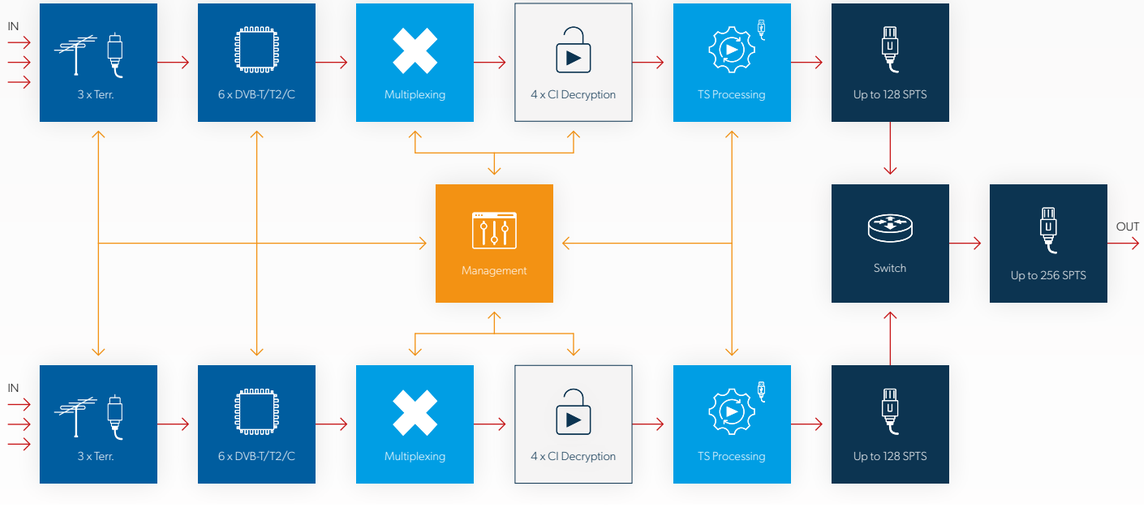
GF20128S / GF20120S



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Terrestrial IP-Streamer

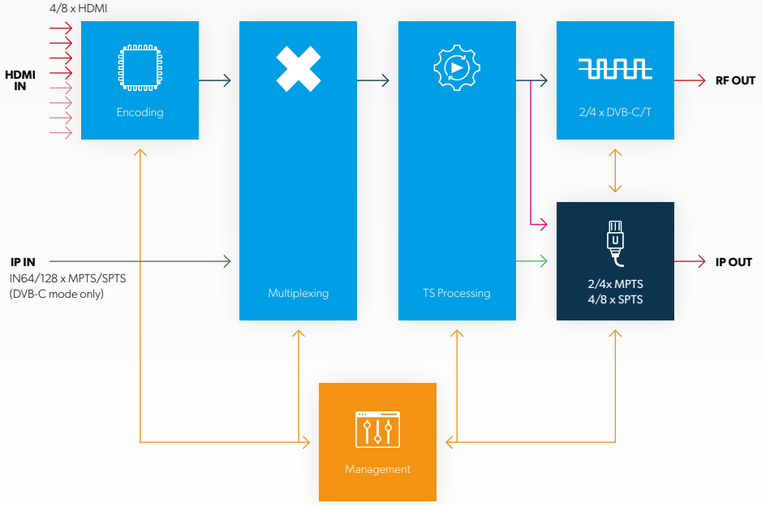
GF21128S / GF21120S



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HDMI Encoder

GF3242H / GF3284H



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Overview of all Features

HDMI-Encoder
MPEG-4/H.264 | HEVC/H.265

Media Player
USB / internal storage / HDMI

Output Channels / Services
DVB-C/T or IP (SPTS/MPTS)

CI Interfaces
4/8 or FTA

Integrated Multiswitch
14 V/18 V/22 kHz/DiSEqC control



Input Channels / Services
DVB-S/S2 | DVB-T/T2/C | HDMI & IP

Service Multiplexing
At CI interface input & at output

TS Processing
Stuffing | Filtering | Remapping
Dynamic PMT

Hotel Mode
PID remapping | no retuning required
Individual language selection

IP Streaming
SPTS | UDP/RTP | Unicast/Multicast
M3U playlist

Setup
Intuitive web interface

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100 years at the forefront of technological development.

As a global pioneer in reception and distribution technology, WISI looks back on a century of innovation. Since 1926, we have evolved into a leading system provider for CATV, mobile communication, and high-frequency connectors. Over the past 100 years, we have mastered the art of turning visions into pioneering, high-quality products. As converging media and broadband services require intelligent transport channels, this remains our core business. As a technology supplier for key communication sectors, we remain dedicated to innovation as we embark on our second century.



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