



Compact Video Headend
Receive. Process. Distribute.



Connecting technology,
connecting you.

wisigroup.com



GF product range

Compact video headend

The new FALCON headend product range features generally recognised and established WISI signal processing technology which is used in various new and future-proof model versions and can be adapted to meet specific market needs by means of flexible configurations.

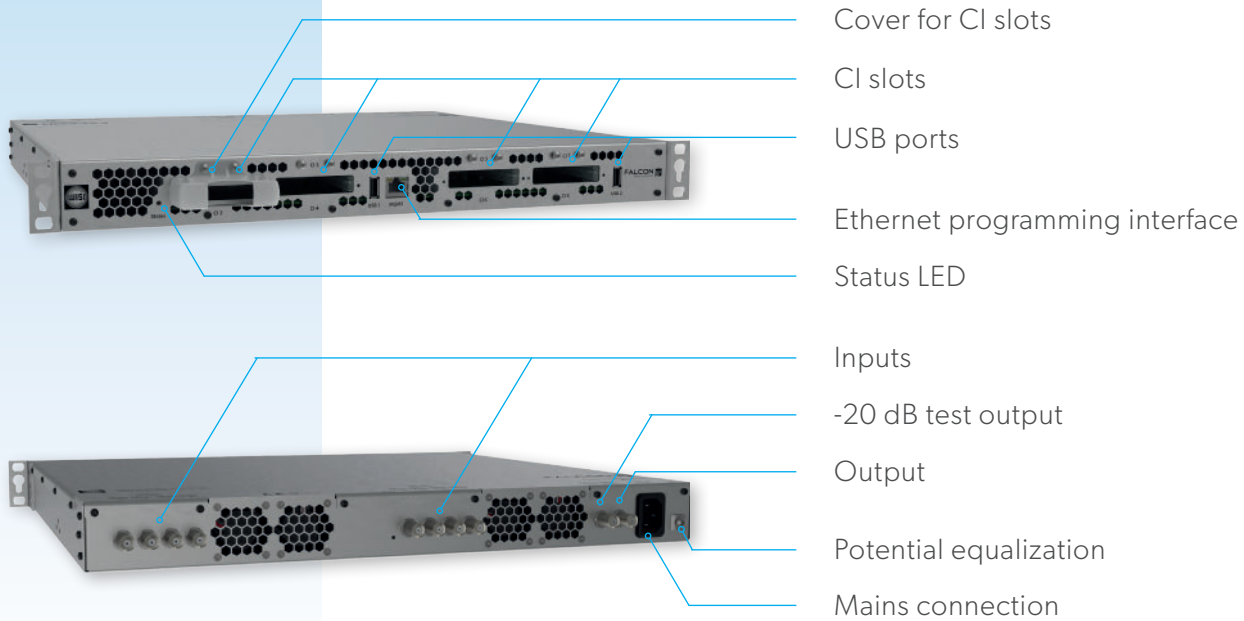
Applications

- ✓ Hotels and B&Bs
- ✓ Leisure centres and campsites
- ✓ Hospitals and rehab clinics
- ✓ Cruise ships and merchant ships
- ✓ Care homes and retirement homes
- ✓ Offices and shared flats

Properties



- ✓ Transmodulation of 12 input channels to 16 DVB-C/T output channels
- ✓ Choice of models with DVB-S/S2 and/or DVB-T/T2/C input tuner
- ✓ Integrated switching matrix and DiSEqC 1.0 control
- ✓ Multiplexing both at the input (upstream of CI) and the output
- ✓ Up to eight CI interfaces
- ✓ Models without CI interfaces also available
- ✓ LCN/NIT table processing
- ✓ Hotel mode with PID remapping
- ✓ Two USB ports for media players
- ✓ Straightforward, intuitive programming via a web browser
- ✓ DHCP server functionality
- ✓ Test output socket (-20 dB) for interruption-free measurements
- ✓ Built-in high-efficiency switching power supply unit



Function

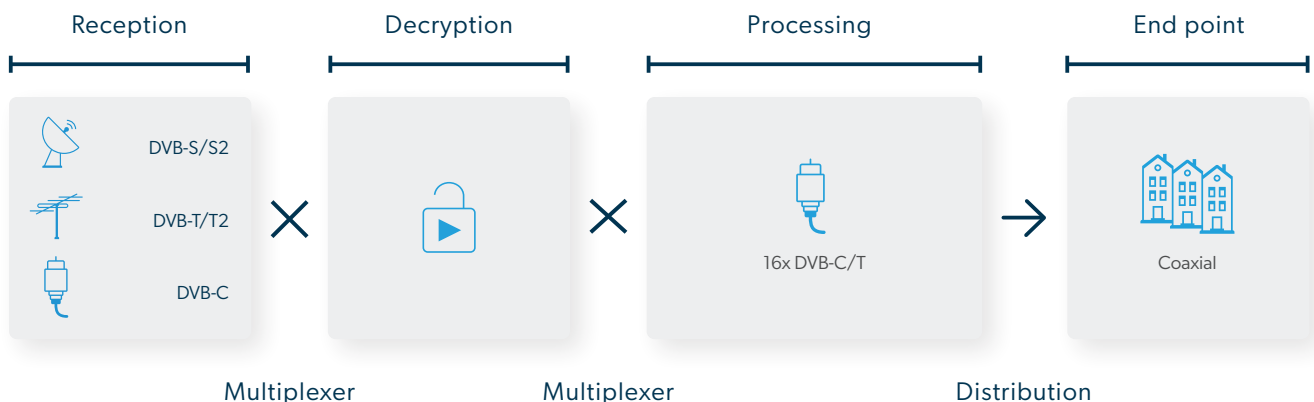
Transmodulation of up to 12 satellite transponders (DVB-S/S2) or terrestrial DVB-T/T2 or CATV DVB-C receiver channels to up to 16 DVB-C or DVB-T output channels.

The integrated switching matrix means that it is incredibly simple to assign the various connected polarisation levels to each receiver tuner and does away with the need for additional external devices. This saves space, material costs and installation time.

The models with CI slots can be equipped with up to eight CAM modules which can be used for the central decryption of programmes. The multiplexing functionality at the input of the CI interfaces helps ensure that the CAM capacity is used in the most effective way with regard to the number of programmes which can be decrypted simultaneously. This way, programmes from different SAT input transponders or terrestrial channels can be combined to form a CAM module.

Thanks to the additional multiplexing function at the output, output channels can also be processed in any combination of programmes. The maximum available bandwidths and data rates of the applicable broadcast transmission standard – DVB-C or DVB-T – are taken into consideration.

External content, such as video sequences, can be added to the data flows via the USB ports.



TECHNICAL SPECIFICATIONS

Input	Satellite	Terrestrial
Impedance	75 Ω	75 Ω
Modulation	DVB-S/S2	DVB-T/T2/C
Frequency range	950 to 2150 MHz	42 to 1002 MHz
Level	50 to 90 dBμV	55 to 95 dBμV
Compliance	DVB-S (EN 300 421) DVB-S2 (EN 302 307-1)	DVB-T/T2 (EN 300 744) DVB-C (EN 300 429)

CI processing		Output	
PCMCIA slots	8/0	Impedance	75 Ω
TS processing		Output frequency range	110 to 862 MHz (COFDM); 50 to 862 MHz (QAM)
TS stuffing	Yes	Output frequency increments	1 kHz
SI table handling	Yes	Output level	85 to 100 dBμV
NIT handling	Yes	Number of channels	16 (4 blocks of 4 channels)
PID remapping	Yes	Return loss	14 dB (45 MHz), 1.5 dB/octave > 10 dB)
QAM processing		Output attenuation	0 to 15 dB (1 db increments)
Constellation	64-QAM to 256-QAM	General data	
Symbol rate	4.45 to 7.20 Mbaud	Supply voltage	110 to 240 V (50/60 Hz)
MER	> 40 dB	Dimensions (WxHxD)	483 x 451 x 44 mm
COFDM processing		Power consumption	Max. 80 W
Constellation	QPSK, 16-QAM, 64-QAM	Operating temperature range	5 to 45 °C
FEC	1/2, 2/3, 3/4, 5/6, 7/8		
Guard interval	1/8, 1/16, 1/32		
FFT mode	2k/8k		
MER	> 40 dB		

Model	Broadcast reception standard	Inputs		Input channels		CI slots
		SAT	TERR	SAT	TERR	
GF10 12016	DVB-S/S2	8	-	12	-	-
GF10 12816	DVB-S/S2	8	-	12	-	8
GF11 12016	DVB-T/T2/C	-	6	-	12	-
GF11 12816	DVB-T/T2/C	-	6	-	12	8
GF12 12016	DVB-S/S2 + DVB-T/T2/C	4	3	6	6	-
GF12 12816	DVB-S/S2 + DVB-T/T2/C	4	3	6	6	8

WISI is entitled to modify the products or specifications contained in this document at any time and without prior notice. WISI is a brand of WISI Communications GmbH & Co. KG in Germany and other countries, and the WISI logo is a registered trademark of WISI Communications GmbH & Co. KG in Germany and other countries. You can find a full list of WISI brands and trademarks at www.wisigroup.com. Brands and trademarks of third-party suppliers are the property of their respective owner and do not imply any form of partnership between WISI and other companies. Copyright © 2024 WISI Communications GmbH & Co. KG. All rights reserved. 2024/05