

IN

IN

flow

The first TV Smart
Headend

FAGOR
ELECTRÓNICA



FLOW HEADEND

- License free
 - Internal satellite and terrestrial multiswitch included. Easy remote operation, no cabling needed
 - Easy set up and commissioning, fastest in the market
 - Programming and control through LAN or WiFi
 - High output density. More than 24 multiplexes in one rack
 - Add new services without re-scanning TV sets
 - Dual CI modules for descrambling. IP pool technology
 - Internal 2x1Gb IPTV output ports. No additional hardware is needed
 - Demultiplexing MPTS to SPTS



- High input density. Up to 40 transponders/multiplexes in one rack
 - Advanced audio languages management
 - Internal DRM, compatible with the leading encryption systems on the market
 - Noiseless fan. Auto speed regulation and fully hot-swappable
 - Optimal bandwidth management
 - Optional redundancy for all modules
 - IP Device Manager Software, compatible with Samsung/LG/Philips TVs directly. Others through STB
- Spare IN/OUT/SEC modules management. The whole configuration is transferred automatically to the new module

FLOW HEADEND



FLOW IN4 (Ref. 4319)

Input module. Frontend.

- . Quad tuner. Universal Input module DVB S/S2/T/T2/C.
- . Auto Scan: Discovers all the services in the cables.
- . HOT SWAP without reconfiguring manually.



FLOW ENC (Ref. 4315)

Encoding module.

- . Encodes 4 x HDMI input signals.
- . H.264 MPEG-4 or MPEG-2 video compression.
- . Full HD quality.
- . Up to 40 x HDMI inputs in 4RU space.



FLOW HUB (Ref. 4314)

Control unit of the platform.

- . Complete internal management .
- . Connected headend: Ikusi Flow wifi and LAN access. Local and remote management.
- . Guided installation through a wizard.
- . 2 Gigabit Ethernet ports for IP Multicast services.
- . Spare modules support for redundancy.



FLOW SEC (Ref. 4311)

Security management module.

- . Decrypting function (CAS) and re-encrypting function (DRM).
- . 2 x CI slots per module.
- . Manages streams coming from any input and going to any output ("uncoupled" input, CAM and output).
- . CAM restoration in case of decryption failure.
- . Supports up to 15 SPTS per CAM (up to 30 SPTS per module).



FLOW OUT (Ref. 4313)

Output module. Backend.

- . Quad/sextuple Universal and Multistandard output module DVB-T & DVB-C.
- . Four carriers in 8K.
- . Up to 8 SPTS per carrier = up to 32 SPTS per module.
- . Output level: 78 to 108 dBμV.



FLOW PSU (Ref. 4308)

Power supply for the platform.

- . More efficiency: Half-Bridge topology.
- . Thermal protection (to protect against external cooling failures).
- . Power factor corrector.



FLOW BASE (Ref. 4312)

Chassis of the platform.

- . "Self-assembly" chassis.
- . 19" rack and wall mounting with the same chassis.
- . Installation without tools or accessories.
- . Real 4 RU (including wires passing).



FLOW COVER (Ref. 4316)

Ventilation cover for the platform.

- . Magnetic attachment system with triple function: securing the cover to the chassis, electrical connection and fans speed auto-management.
- . 5 fans per cover.
- . New noiseless fans generation based on magnetic technology, without rubbing or friction.



FLOW RPSU REDUNDANT (Ref. 4320)

Redundant power supply.

- . Ensuring uninterrupted power in the event of failure of one of the two available power supplies.
- . The damaged power supply can be changed without disconnecting the headend from the power.
- . Integrates two identical power supplies in a 1RU (rack unit) chassis.



FLOW-STB-4K IP HDMI (Ref. 4328)

IPTV/OTT SET-TOP BOX with 4K support

- . High Quality Sound and Image.
- . 4K and HEVC Support
- . 4x ARM Cortex-A53
- . 4 GB eMMC
- . 1 GB RAM

FLOW HEADEND

FUNCTIONALITY

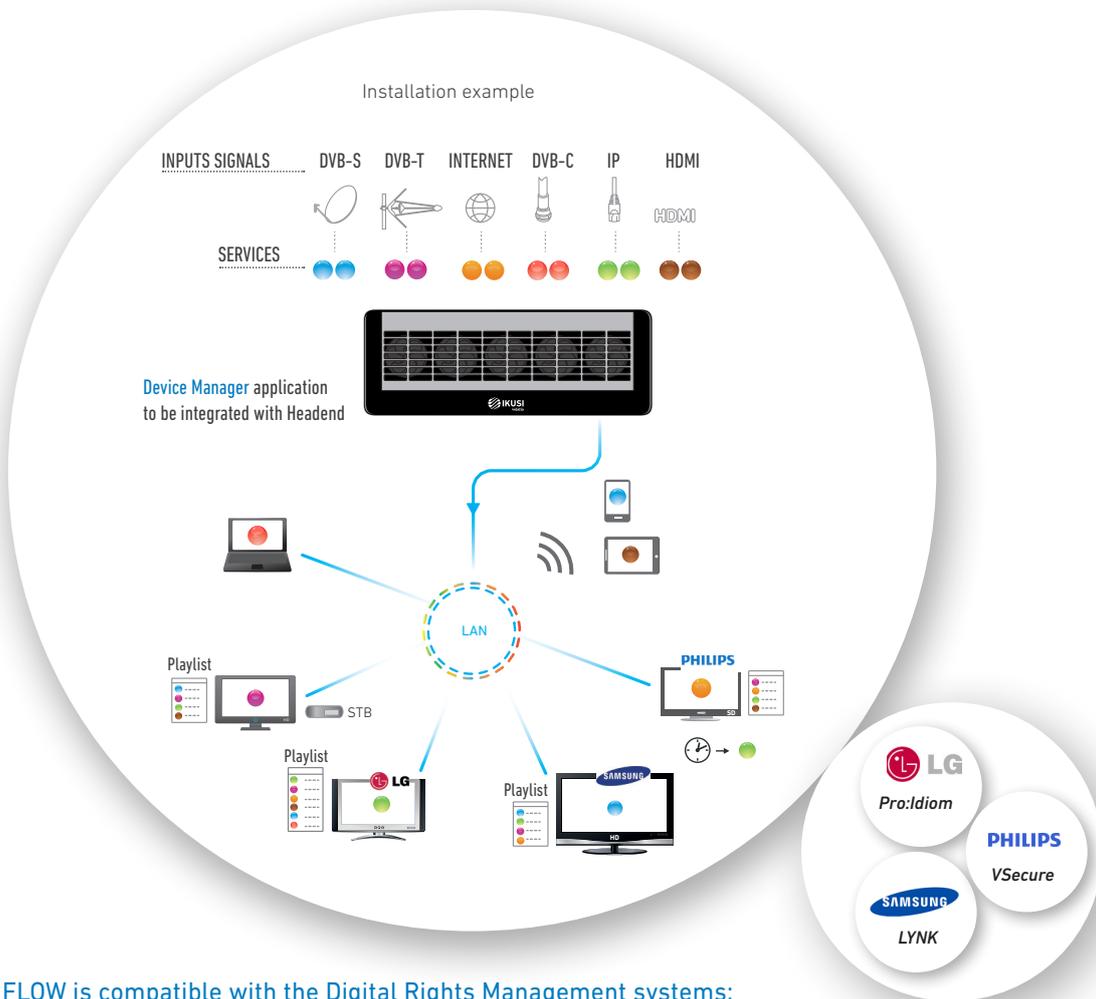
DEVICE MANAGER

Device Manager is the new Application integrated into FLOW that offers management of the contents and of the devices on the IPTV network in a centralised way, allowing:

- Different lists to be made, offering the possibility of sending groups of content to devices either individually or in groups. It allows the contents available to be controlled on each of the televisions.
- The content that is to be reproduced on each viewing device (or multi-screen spaces) to be selected individually in a remote manner, allowing what is being reproduced at each viewing point to be managed and controlled.
- Televisions by the main manufacturers can be turned on, turned off and the sound controlled as on or muted. The list of available services can be allocated to groups or individual Televisions and channels can be remotely changed. The state of the Television can be viewed remotely as well as seeing what channel is playing.

Device Manager is compatible with the main television brands:

PHILIPS



FLOW is compatible with the Digital Rights Management systems:

4336	FLOW-DRM-LG-PROIDIOM-SEC	License SEC Pro:Idiom
4339	FLOW-DRM-LG-PROIDIOM-ENC	License ENC Pro:Idiom
4338	FLOW-DRM-LG-PROIDIOM-HUB-MAN	License HUB Pro:Idiom Manufacturer
4340	FLOW-DRM-LG-PROIDIOM-HUB-SP	License HUB Pro:Idiom Service Provider
4335	FLOW-DRM-SAMSUNG-LYNK-HUB	License LYNK
4337	FLOW-DRM-PHILIPS-VSECURE-HUB	License VSecure
4330	FLOW WE1	Extended warranty 1 year
4331	FLOW WE2	Extended warranty 2 years
4332	FLOW WE3	Extended warranty 3 years