

# WISI FIREFLY GBA02

HLS Streaming IRD for Video Contribution over the Internet.  
Up to 2 HLS inputs



## Description

FIREFLY HLS RECEIVER is a Smart Broadcast Platform. The Firefly HLS Receiver has been developed specifically to provide an alternative content contribution method. This smart receiver can convert HLS streams to digital formats, and provides a cost-effective solution for operators who wish to distribute linear TV channels to each sub headend. The FIREFLY HLS receiver model GBA02 allows you to receive up to 2 HLS streams, processing, conversion to IP Multicast/Unicast and feeding your digital or analog network.

## Scope of delivery

- 1x GBA02
- 1x Quick Guide

## At a glance:

- Professional HLS integrated receiver and decoder
- Single or dual HLS stream reception, up to 2x HD sources with 1 profile each or up to 2x SD sources with 1 profile each
- Conversion of HLS to IP Multicast/Unicast
- Intuitive graphical user interface
- Output interface: IP or ASI
- Deployment Scenarios: satellite distribution replacement, hospitality and cable operators, refugees TV, universities

## Technical data

### HLS Streaming Input

HLS IRD	Up to 2 HLS streams
HLS SD bitrate	Up to 4 Mbps per stream
HLS HD bitrate	Up to 8 Mbps per stream
HLS Adaptive Bitrate (ABR)	No (optional)

### Streaming- In-/Output

IP-Inputs	32 pcs.
IP-Outputs	32 pcs.
IP-Compliance	ISO/IEC 13818
IP-Input bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Output bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Input protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3
IP-Output protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3
IP-TS-Input format	SPTS CBR/VBR, MPTS CBR
IP-TS-Output format	SPTS CBR/VBR, MPTS CBR
IP-FEC Inputs	32 pcs.
IP-FEC Outputs	32 pcs.
IP-FEC compliance	SMPTE 2022-1, SMPTE 2022-2
IP-Packet format	MPEG over UDP/IP and RTP/IP
IP-Packet size	188 Byte
IP-PCR restamping	Yes
IP-Dejittering	Yes, per default 100ms, individual adjustable

### ASI Input/Output

ASI-Input/Output	2 pcs. (max.)
ASI-Impedance	75 Ω
ASI-Frequency range	<270 MHz
ASI-Return loss	>17 dB (27...270 MHz)
ASI-Compliance	EN 50083-9:2002
ASI-Packet size Input/Output	188, 204/188 Byte
ASI-PCR restamping	Yes
ASI-Input/Output max. payload bit rate	Typ. 200 Mbit/s

### Processing

Service remultiplexing	Yes
PID filtering and remapping	Yes
PCR correction and de-jitter	Yes
Advanced PSI/SI regeneration	Yes
Processing bitrate	max. 850 Mbps total
Number of PIDs	Max. 2000 PIDs total
Compliance	ETSI EN 300 468

### Connectors

RJ45	3 pcs. (1x Management, 2x Streaming)
BNC-socket	2 pcs. (Individually configurable for in/out via UI)

## Technical data

### General data

Power consumption	20 W
Power supply	Redundant power supply, internal, 90...260 V, 47...63 Hz
Operating temperature range	-5°C...+45°C, 23°F...113°F, (ETSI EN 300 019-1-3 Class 3.1)
Max. humidity, non condensing	95 %
Electro Magnetic Compatibility (EMC)	EN 50083-2
Safety compliance	CE
Signalling	Multicolor LEDs (Power on - green, Error - red)
Hardware revision	1000
Software version	-

### Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	483 x 45 x 410 mm (1HE, 19"-Rack)
Packaging volume sales unit	dm <sup>3</sup>
Gross weight sales unit	kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	570 x 100 x 550 mm
Packaging volume shipping package	31,35 dm <sup>3</sup>