

WISI HLS Streaming IRD

HLS Streaming IRD for Video Contribution over the Internet



Description

The FIREFLY HLS IRD is a professional HLS receiver device which adds the feature of HLS stream reception and conversion in IP Multicast/Unicast. The FIREFLY HLS receiver allows you to receive up to 2 HLS streams, processing and feeding your digital or analog network.

Scope of delivery

- 1x Firefly HLS IRD/Receiver
- 1x Quick Guide

At a glance:

- Professional HLS integrated receiver 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
- Support for reception of encrypted content (DVB-CSA)
- Intuitive graphical user interface
- Output interface: IP or ASI
- Optional: descrambling/scrambling, analog or digital modulator
- 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

Optional 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

Optional CI Multidecryption

Decryption	Yes, with CAM and Smart Card
Compliance	ETSI EN 300 468

Optional Output Modulator

Digital Output Modulation	QAM, DVB-C (EN 300 429), ITU-T J.83 Annex A, B and C, COFDM, ISDB-T
Analog Output Modulation	PAL/SECAM/NTSC

Processing

Service remultiplexing	Yes
PID filtering and remapping	Yes
PCR correction and de-jitter	Yes
Advanced PSI/SI regeneration	Yes
Compliance	ETSI EN 300 468

Connectors

RJ45	3 pcs. (1x Management, 2x Streaming)
Common Interface	2 pcs. (optional)

Technical data

BNC-socket	2 pcs. (optional, Individually configurable for in/out via UI)
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F-socket RF- output	1 pcs. (optional)
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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)	DIN EN 55022:2008-05
Hardware revision	1000

Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	230 x 105 x 40 mm (without connectors)
Packaging volume sales unit	dm ³
Gross weight sales unit	<4 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	483 x 45 x 473 mm