

SMART SERVER

SRT

SECURE
RELIABLE
TRANSPORT

The new platform
for signal reception
and processing



PRODUCT DESCRIPTION

The Smart Server is the new platform for the receiving, decoding, processing and distribution of IP and DVB signals. Its intuitive operation through a web browser allows inputs and outputs to be controlled and signals to be easily processed with no more than a few mouse-clicks. Through additional software options such as the reception and routing of HTTPS live streams from the Internet, the Smart Server will become the central unit in your network for signals of various types.

APPLICATION

- ✓ DVB gateway for multicast streaming
- ✓ Hybrid distribution (simultaneous DVB-C and IP stream output)
- ✓ EDGE-QAM: modulation of IP streams to DVB-C
- ✓ Signal source for transcoders and data loggers

FUNCTION OVERVIEW

VARIANT-DEPENDENT

- Input: up to 32x tuner DVB-S2/S2X/T2/C2
- Input: up to 10x HLS (HTTPS - Live - Stream) or SRT *
- Up to 8 CI- Slots with Multi-Program decoding
- Output: up to 160x STPS (UDP/RTP)
- Output: up to 24x MPTS (UDP/RTP)
- Output: up to 50x HTTP live streams
- 10 media player channels
- Intuitive HTML GUI (known from GSS.lamina)
- Export of IPTV service lists for various TV manufacturers and STBs
- Software, tuner and CI boards
- Made in Germany
- UHD / 4K capable
- Filter function
- EPG / NIT / SAP service switchable per stream
- Low power consumption

* optional software feature

SMART SERVER V3 | STAND 2025-11

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VARIANTS OVERVIEW

MODEL			IP				
			16S2X 6CI	16S2X 8CI	24S2X 6CI	24S2X 8CI	32S2X 6CI
INPUT	DVB-Tuner	S2X	16x	16x	24x	24x	32x
		S2/C2/T2	-	-	-	-	-
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓
		SRT	Optional				
		HLS (HTTPS)	Optional				
		MP3-Stream (m3u-Format)	Optional				
PLAYBACK	Medioplayer	.ts files in infinite loop	10x	10x	10x	10x	10x
PROCESSING	Decoding	Common Interfaces	6x	8x	6x	8x	6x
	Multiplexer	Incl. filter function	-	-	-	-	-
OUTPUT	Modulation	DVB-C	-	-	-	-	-
		DVB-T	-	-	-	-	-
		PAL	-	-	-	-	-
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓
		MPTS (UDP /RTP)	Optional				
		HLS (HTTPS)	-	-	-	-	-
PLAY	HTML-Webplayer	HLS (HTTPS) display	-	-	-	-	-
OTHER	HTML GUI	Admin / Guest User	✓	✓	✓	✓	✓
	Control	OpenVPN connection	✓	✓	✓	✓	✓
		Design	19" 4U	19" 4U	19" 4U	19" 4U	19" 4U

MODEL			IP				
			16S2X 4M 6CI	8S2X 8M 6CI	16M 6CI	24S2X 6CI HLS	IP HLS
INPUT	DVB-Tuner	S2X	16x	8x	-	24x	-
		S2/C2/T2	4x	8x	16x	-	-
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓
		SRT	Optional				
		HLS (HTTPS)	Optional				
		MP3-Stream (m3u-Format)	Optional				
PLAYBACK	Medioplayer	.ts files in infinite loop	10x	10x	10x	10x	10x
PROCESSING	Decoding	Common Interfaces	6x	6x	6x	6x	-
	Multiplexer	Incl. filter function	-	-	-	-	-
OUTPUT	Modulation	DVB-C	-	-	-	-	-
		DVB-T	-	-	-	-	-
		PAL	-	-	-	-	-
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	-
		MPTS (UDP /RTP)	Optional				
		HLS (HTTPS)	-	-	-	50x	50x
PLAY	HTML-Webplayer	HLS (HTTPS) display	-	-	-	✓	✓
OTHER	HTML GUI	Admin / Guest User	✓	✓	✓	✓	✓
	Control	OpenVPN connection	✓	✓	✓	✓	✓
		Design	19" 4U	19" 4U	19" 4U	19" 4U	19" 4U

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VARIANTS OVERVIEW

MODEL			HYBRID						
			16S2X 6CI QM	16S2X 8CI QM	24S2X 6CI QM	16S2X 4M 6CI QM	8S2X 8M 6CI QM	16M 4CI QM	
INPUT	DVB-Tuner	S2X	16x	16x	24x	16x	8x	-	
		S2/C2/T2	-	-	-	4x	8x	16x	
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓	✓	
		SRT	Optional						
		HLS (HTTPS)	Optional						
		MP3-Stream (m3u-Format)	Optional						
PLAYBACK	Medioplayer	.ts files in infinite loop	10x	10x	10x	10x	10x	10x	
PROCESSING	Decoding	Common Interfaces	6x	8x	6x	6x	6x	4x	
	Multiplexer	Incl. filter function	✓	✓	✓	✓	✓	✓	
OUTPUT	Modulation	DVB-C	16x	16x	24x	24x	16x	16x	
		DVB-T	-	-	-	-	-	-	
		PAL	-	-	-	-	-	-	
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓	✓	
		MPTS (UDP /RTP)	✓	✓	✓	✓	✓	✓	
HLS (HTTPS)		-	-	-	-	-	-		
PLAY	HTML-Webplayer	HLS (HTTPS) display	-	-	-	-	-	-	
OTHER	HTML GUI	Admin / Guest User	✓	✓	✓	✓	✓	✓	
	Control	OpenVPN connection	✓	✓	✓	✓	✓	✓	
		Design	19" 4U	19" 4U	19" 4U	19" 4U	19" 4U	19" 4U	

MODEL			HYBRID				EDGE	
			16S2X 6CI TM	8S2X 4M 6CI TM	8M 6CI TM	16S2X 6CI PAL	WP 4QM	16PAL
INPUT	DVB-Tuner	S2X	16x	8x	-	16x	-	-
		S2/C2/T2	-	4x	8x	-	-	-
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓	✓
		SRT	Optional				64x	Optional
		HLS (HTTPS)	Optional				64x	Optional
		MP3-Stream (m3u-Format)	Optional				64x	Optional
PLAYBACK	Medioplayer	.ts files in infinite loop	10x	10x	10x	10x	10x	10x
PROCESSING	Decoding	Common Interfaces	6x	6x	6x	6x	-	-
	Multiplexer	Incl. filter function	✓	✓	✓	✓	✓	✓
OUTPUT	Modulation	DVB-C	-	-	-	-	4x	-
		DVB-T	16x	16x	16x	-	-	-
		PAL	-	-	-	16x	-	16x
	IP	SPTS (UDP/RTP)	✓	✓	✓	✓	✓	✓
		MPTS (UDP /RTP)	✓	✓	✓	-	40x	-
HLS (HTTPS)		-	-	-	-	-	-	
PLAY	HTML-Webplayer	HLS (HTTPS) display	-	-	-	-	-	-
OTHER	HTML GUI	Admin / Guest User	✓	✓	✓	✓	✓	✓
	Control	OpenVPN connection	✓	✓	✓	✓	✓	✓
		Design	19" 4U	19" 4U	19" 4U	19" 4U	19" 4U	19" 4U

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SPECIFICATIONS

DVB-S2/S2X Tuner Specifications	
Input frequency range	950 MHz to 2150 Mhz
Modulation (symbol rates)	QPSK (~95 Msym), 8PSK/8APSK-L (56 Msym), 16APSK/16APSK-L (64,5 Msym), 32APSK/32APSK-L (51,6 Msym), 64APSK/64APSK-L (43 Msym), 128APSK (36,5 Msym), 256APSK/256APSK-L (32,25 Msym)
LNB Supply	4 x Max. 19V, 1A pulsed current, 500mA continuous current
Sensitivity (@25MSym)	QPSK 11/45: -89dBm (20 dBμV), QPSK 1/2: -86dBm (23 dBμV), 8PSK 9/10: -77dBm (32 dBμV), 256APSK 3/4: -69dBm (40 dBμV)
Operating mode	Quad-LNB, Quattro-LNB/Multiswitch, Unicabel
S2X Features:	Short frames, long frames, ACM, VCM, MIS, Annex M, channel bonding, max. baud-rate up to 500Mbit/s up to 2 slices, maximum DVB-S2/S2X LDPC-bitrate is 720 MBit/s
DiSEqC	DiSEqC 2.0
DVB-C Tuner Specifications	
Input frequency range	51 – 858 MHz
Symbol rates	0,87—6,9 MBaud
Sensitivity	47 dbμV (64 QAM), 47 dbμV (256 QAM)
All modulation and code types according to DVB-C specification	
DVB-C2 Tuner Specifications	
Modulation	16, 64, 256, 1024, 4096 QAM
Coderates	2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Guard interval	7/64 and 1/128
Channel bandwidth	6 MHz and 8 MHz
DVB-T/T2 Tuner Specifications	
Input frequency range	49 – 861MHz, 2k&8k OFDM
Sensitivity	-83,0 dBm bei 16-QAM&3/4
All modulation types according to DVB-T and DVB-T2 specifications	
Properties	
Operating system	Linux
Network Interfaces	2x 2.5 GbE (streaming/management configurable)
Casing	19" 4U (43 x 46,5 x 17,5 cm)
Weight	ca. 15 kg (depending on variant)
Certification	CE, RoHS, UKCA
Permissible ambient temperature	0 ... +50 °C
Power consumption	400 Watt PSU, typically 90W at 16x DVB-S2X + 6x CI, 100-240V, 50/60 Hz