

# SMART SERVER

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 HTTP 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

- 16 / 24 / 32 DVB-S/S2/SX inputs
- Optional 6 CI- Slots with Multi-Program decoding
- Up to 160 IPTV streams (MPTS & SPTS, in UDP / RTP TS)
- 10 media player channels
- Intuitive HTML GUI (known from GSS.lamina)
- Export of IPTV service lists for various TV manufacturers
- Software, tuner and CI boards Made in Germany
- UHD / 4K capable
- filter function
- EPG / NIT / SAP service switchable per stream
- Low power consumption

SMART SERVER V1 | STAND 2023-03

## Function Overview

Model	16S2X	24S2X	32S2X	16S2X 6CI	24S2X 6CI	32S2X 6CI
Reception	16x DVB-S/S2/S2X	24x DVB-S/S2/S2X	32x DVB-S/S2/S2X	16x DVB-S/S2/S2X	24x DVB-S/S2/S2X	32x DVB-S/S2/S2
CI-Slots	-			6		
Output	Up to 160x SPTS and / or MPTS					
Output data rate	Max. 800 MBit/s per Ethernet port					
Medioplayer/ClipStreaming	10x SPT streams (2-20 MBit/s each)					
Protocols	UDP / RTP, Multicast / Unicast (individually selectable via SPT stream)					
IGMP <small>Internet Group Management Protocol</small>	V2 and Auto V2/V3					
EPG <small>Electronic Program Guide</small>	on / off switchable (except with MediaPlayer)					
SAP <small>Session Announcement Protokoll</small>	on / off switchable (frequency selectable)					
NIT <small>Network Information Table</small>	on / off switchable					
List of IPTV Services	M3U lists for TV sets from the following manufacturers: Panasonic-VIERA, LOEWE, VESTEL, BEWATEC, PHILIPS, Samsung – export as CSV file					

## Control and Monitoring

Remote control	OpenVPN, HTTP, (Webinterface), SNMP
Local control	Via web interface
Software upgrade	HTTP
Notification	For log entries via email
Presets and backup	Save and load configurations
Login manager	Administrator: full access
Guest: read only	Anzeige von Warnungen und Ereignissen Einstellbare Reaktionszeiten für Eingangssignal- und Datenüberlauffehler Übertragung der Logbucheinträge zu Syslog-Server <sup>1</sup>
Logbook	Display of warnings and events Adjustable reaction times for input signal and data overflow errors Transmission of logbook entries to Syslog server <sup>1</sup>
Notifications	on / off switchable (frequency selectable)

<sup>1</sup>internet connection necessary

## Tuner specifications (per module)

Model	16S2X	24S2X	32S2X	16S2X 6CI	24S2X 6CI	32S2X 6CI
Inputs	4x F female 75Ω connector for power supply					
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					

## TS over IP Output

Type of connection	2xRJ45, 10/100/1000M
Output bitrate	≤ 800Mbit/s per Ethernet in total
Protocol	UDP, RTP (Unicast/Multicast, igmpv.3 )

## TS Processing

TS input	Demux, Remux, TS/IP and CI input
SID and PID management	For Demux, Remux, TSIP-In and Remapping
PSI/SI	PSI/SI table regeneration, NIT LCN, SDT processing, LCN regeneration
Decoding	DVB Common Scrambling Algorithm (CSA)
CI slots	Up to 6x PCMCIA slots, compatible with all current CAMs on the market (optional)

## Properties

Operating system	Linux
Network interfaces	2x 10/100/1000TX Ethernet, RJ45 (streaming/management configurable)
Casing	UDP, RTP (Unicast/Multicast, igmpv.3)

## Dimensions

Weight	approx. 15 kg (depending on variant)
Certification	CE, RoHS
Permissible ambient temperature	0 ... +50 °C
Power consumption	400 Watt PSU, typically 90W with 16x DVB-S2X + 6x CI, 100-240V, 50/60 Hz

© 2022 GSS Smart Solutions GmbH · All rights reserved · Specifications are subject to change without notice.