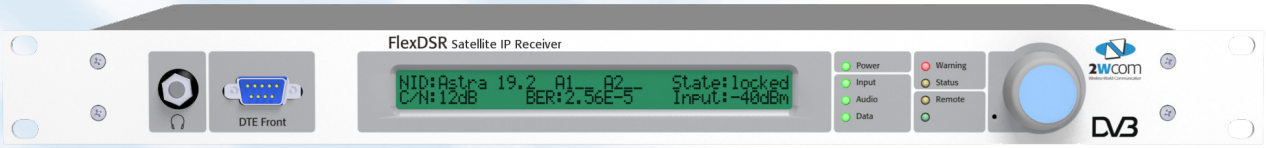
FlexDSR Satellite IP Receiver

Professional DVB-S/S2 IP Receiver

2Wcom
Wireless-World-Communication



Energy efficient, no moving parts, no fan

Transport stream inputs

- DVB-S/S2 (single and multiple channel per carrier)
  - 0.256 - 45 MSym/s (QPSK, 8PSK)
  - 0.128 - 45 MSym/s (QPSK, 8PSK)
  - 0.064 - 45 MSym/s (Tuner module 16 APSK)
- ASI (optional)
- Gigabit IP

Transport stream output

- Gigabit IP
- ASI (optional)

Redundancy

- Automatic redundancy switching between Master/Slave unit

Features / USP´s

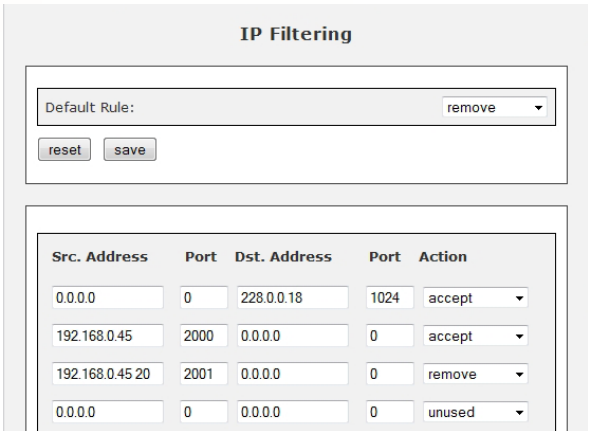
- Extraction of DVB-MPE encapsulated IP data through DVB-S/S2 channel
- Advanced filtering of IP data depending of PID, IP address and UPD port

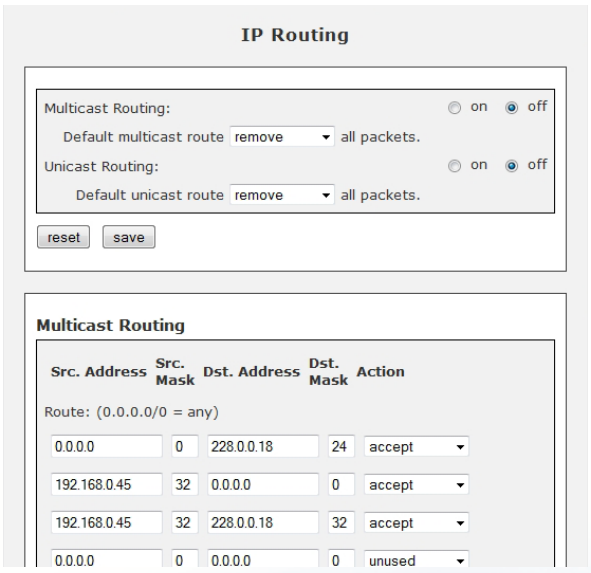
Monitoring

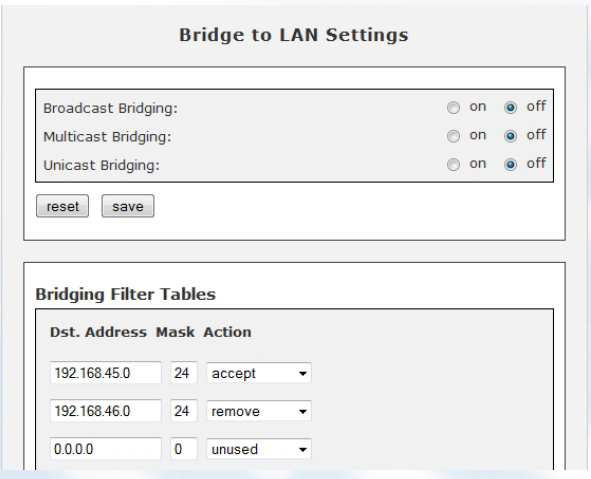
- RF signal quality via SNMP v2c and relay (RF Power, C/N, Vit./LDPC BER, TS Sync, etc.)

Control

- Web interface
- Optional: SIRC Satellite In-Band Remote Control (e.g. relay switching, device group building, firmware update, configuration)
- SNMP v2c







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Rear view FlexDSR Satellite IP Receiver

FlexDSR Satellite IP Receiver – Technical Details

Inputs

RF

	F-jack female
Frequency	950 ... 2.150 MHz, step 1 Hz
Input Level, impedance	-75 ... -20 dBm, 75 Ω
LNB Control	13 V vertical, 18 V horizontal 0 kHz low band, 22kHz high band
Noise Figure	typical 6dB, max. 12 dB

ASI (optional)

Data	MPEG2 TS
Connector	BNC 270 Mbps

Gigabit IP

Data	MPEG TS or RTP, UDP, Audio
Type	Auto Switching 10/100/1000 BASE-T Unicast, Multicast

Outputs

Gigabit IP

Data	MPE
Connector	RJ45
Type	Auto switching 10/100/1000 BASE-T
Protocols	IP (RFC 791), UDP (RFC 768), TCP (RFC 793), ARP & ping, ICMP, IGMP
IP address types	Unicast, Multicast, Broadcast, IP address translation

ASI

Data	MPEG2 TS
Connector	BNC 270 Mbps

Filtering

PID filter	16 selectable PID values
IP/UDP filter	16 selectable IP addresses for bridging 16 selectable IP addresses for routing 16 selectable IP addresses / UDP ports for filtering

Control & Monitor

Ethernet

Data	Controlling and Setup functions
Connector	RJ45
Type	Auto switching 10/100 BASE-T
Protocol	HTTP, SNMPv2c, SMTP, UDP

Contact closure

Inputs	7 opto isolated inputs (excludes option: 24 relay contacts) 15 pole sub-D female
Outputs	12 floating relay contacts (for DC: max. 24 V, 1 A, 10W) 26 pole sub-D male
optional:	24 floating relay contacts (excludes: 7 opto isolated inputs)

Serial

	3x RS-232C (1 front, 2 rear)
optional:	2x additional RS-232C (rear)
optional:	Controlling and Setup functions
Connector	9 pole sub-D male
Transmission rate	1200 to 115200 baud, asynchronous

Front panel

LCDisplay	2x 40 characters
Jog Wheel	Impulse, ENTER button
8 LEDs	Power, Signal, Warning, Status, Alarm, Remote

Installation support / Monitoring

Antenna voltage (optional)	Monitoring
Received data	RF Power, C/N, Vit./LDPC BER, TS Sync (more according to your requirements)

Satellite Modulation

Tuner option 1 (standard) / Tuner option 2 (optional)

DVB-S (EN 300 421)

Standard Modulation/Symbol rate	QPSK (0.128 ... 45 MSym/s)
Roll-off	0.20, 0.35
FEC	Viterbi, Reed Solomon 1/2, 2/3, 3/4, 5/6, 6/7, 7/8

DVB-S2 (EN 302 307)

Standard Modulation/Symbol rate	QPSK (0.128 ... 35 MSym/s)
FEC	LDPC, BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Modulation/Symbol rate	8PSK (0.256 ... 31 MSym/s)
FEC	LDPC, BCH 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Roll-off	0.20, 0.25, 0.35

Tuner option 3 (optional)

(High performance & Advanced DVB-S2 processing functions)

DVB-S (EN 300 421)

Modulation/Symbol rate	QPSK (0.064...45 MSym/s)
Roll-off	0.20, 0.35
FEC	Viterbi, Reed Solomon 1/2, 2/3, 3/4, 5/6, 6/7, 7/8

DVB-S2 (EN 302 307)

Modulation/Symbol rate	QPSK (0.064 ... 45 MSym/s) 8PSK (0.064 ... 45 MSym/s) 16 APSK (0.064 ... 45 MSym/s)
Modulation type	CCM
Frame type	Short, Normal
Roll-off	0.20, 0.25, 0.35
FEC	LDPC, BCH 1/4, 1/3, 2/5,1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Transport stream processing	Single Transport Stream
PL scrambling	ID 0 ... 262144
Input switching	loop through, A/B switch (optional)

Advanced processing functions (optional):

Modulation/Symbol rate	32 APSK (0.064 ... 38 MSym/s)
Modulation Type	VCM, ACM
Transport stream processing	Single and Multiple Transport stream / Single and Multiple Generic stream

General data

Power consumption	40 VA
Case dimensions	19“, 1 HU, 310/424/484 mm
Weight	<4 kg
Housing	steel plate (aluminum-zinc coated)
Operating temp. range	0...+45°C
Storage temp. range	-40...+70°C
Power supply	internal, 90...260 V, 47...63 Hz
Languages	English

Version 10.09.2014
These data are subject to modifications and amendments.
Errors excepted

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