



DVB-S2 INTEGRATED RECEIVER DECODER

Professional DVB-S2/S2X demodulator with ASI and IP outputs and h262/h264 decoder for the reception of free-to-air and encrypted satellite signal.



The CW-4142.2 is the next generation of CableWorld's Integrated Receiver and Decoder family. The 19-inch rack frame contains one tuner for demodulating DVB-S/S2 and DVB-S2X (optional) signals, and one CI slot (Conditional Access Module socket) for encrypted programs. The tuner can power universal LNB. The device has ASI and IP (UDP/IP or RTP/IP, MPTS or SPTS) outputs for Transport Stream. The video signals are available via HDMI, SDI, HD-SDI, CVBS (PAL, SECAM, NTSC), and YprPb. The audio signals are available via HDMI, SDI/HD-SDI, RCA (asymmetrical analog), XLR (symmetrical analog), and SPDIF (75 ohm coaxial).

Setting up the device is very simple: only the channel frequency has to be entered. The other reception parameters (DVB standard, symbol and FEC rate, etc.) are recognized automatically. However, they can be set manually, too.

After a successful tuning, the WebGUI lists the available services which can be chosen to be decrypted even by elementary streams. The number of services, which can be decrypted simultaneously, depends on the CA modules only.

The multi-program transport streams coming from the satellite transponders are passed through the ASI outputs but they can also be divided into single-program transport streams at the IP output. Additionally, the unwanted elementary streams can be filtered.

Fields of application:

- ✓ hardware-based IPTV streamer for converting DVB-S2/S2X signals to single-program transport streams
- ✓ essential element of CATV headends which gathers the wanted TV channels from satellite transponders and provides ASI/IP and A/V (h262/h264) outputs

- ✓ Common Interface slot
- ✓ LNB powering
- ✓ DVB-S2X compatibility as an option
- ✓ separated management port
- ✓ user-friendly HTML5 WebGUI
- ✓ built-in PSI analyzer
- ✓ CA module menu handler
- ✓ SFP (Mini GBIC) socket
- ✓ UDP/IP or RTP/IP, MPTS or SPTS streaming
- ✓ VLAN tagging
- ✓ SNMP traps
- ✓ elementary stream filter
- ✓ Analoge and Digital video output
- ✓ h262/h264 decoder

DVB-S2 INTEGRATED RECEIVER DECODER



Technical data

RF input data

Tuner type	SP2246T (DVB-S2) FTS-3166 (DVB-S2X)
Input frequency range	925..2150 MHz (SP2246T) 950..2150 MHz (FTS-3166)
RF input impedance	75 Ω
RF input connector	F socket
RF loop-through connector	F socket (if there is any)
Input Level	min. -65 dBm, max. -25 dBm
Noise figure	typ. 6 dB (SP2246T) typ. 4 dB (FTS-3166)
LNB powering	18 V/13 V, 400 mA/600 mA

Transmission parameters

Bandwidth	5 MHz..36 MHz variable in 1 MHz steps
Modulation	QPSK, 8PSK (SP2246T) 8/16/32APSK (FTS-3166)
Symbol rate	max. 62 MSps (QPSK) max. 45 MSps (8PSK)
Convolution code ratio	1/2 to 9/10, with automatic recognition

IP output

Transport stream	10-, 100- and 1000Base-T
Protocol	Ipv4, ARP, UDP
Number of outputs	64 UDP/RTP stream/device
Stream	MPTS and SPTS
VLAN tagging	configurable for all outputs
Connector type	RJ-45 and SFP (Mini GBIC) socket

ASI output

Standard	according to EN 50083-9 (for interconnection between devices)
Impedance	75 ohm
Connectors	BNC sockets (for each tuner)

Video decoder

System	ISO/IEC 13818-2 (MP@HL) ISO/IEC 14496 H.264/AVC Level 4.1
Functions	independent horizontal and vertical up- and down-scaling TXT, WSS, VPS insertion

Analogue outputs

Digital outputs

Audio decoder

System	ISO/IEC 11172-3 (MPEG-1 L1, L2) MPEG-2 AAC LC (optional) MPEG-4 AAC LC (optional)
Sampling frequency	8 ... 96 kHz (depending on the system)
Bit rate	8... 448 kbit/s (depending on the system)
Analogue outputs	L, R
Connectors	RCA (asymmetrical), XLR (symmetrical)
Audio output level	0 dBm
Digital output	SPDIF (75 ohm coaxial)

Management port

IP input	10-, 100Base-T
Protocol	IPv4, ARP, ICMP ping, TCP/IP, UDP/IP, SNMP trap
Connector type	RJ-45

General data

Mass	4,5 kg
Physical dimensions	19" × 1 RU
W × H × D	483 × 43,6 × 473 mm
Service period	continuous
Power requirement	90..264 V, 47..440 Hz
Power consumption	max. 110 VA
Temperature at operation	+5..+40°C, relative humidity max. 80%

Device control

Programming and control	over a separate management port in web environment with a HTML5 GUI which is optimized to the latest Firefox browser
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Management IP address	192.168.10.10/24
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ordering data:

CW-4142.2

1×DVB-S2 tuner, ASI and IP outputs, A/V outputs, SFP, WebGUI

DVB-S2X option

DVB-S2X compatibility for CW-4142.2

AAC option

MPEG-2 AAC LC and MPEG-4 AAC LC compatibility for CW-4142.2

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