

SVP's new UDR-104 and UDR-108 receivers perform DVB-T2, DVB-T and ISDB-T demodulations. DVB-T2 modulation outperforms DVB-T modulation and offers a much higher data rate, and therefore, a higher quality signal or much more robust signal than DVB-T, enabling longer and more complex links.

This receiver has eight antenna inputs in DVB-T2, DVB-T and ISDB-T demodulations, using spatial diversity based on MRC technique (Maximum Ratio Combining). Optionally, you can split 8 antennas into 4+4 system, receiving 2 different signals and obtaining them multiplexed in the ASI output.

It features HEVC, H.264 and Mpeg-2 encoding for 12G, high definition (HD) and standard definition (SD) signals with ultra-low latency. HEVC allows the same video quality, reducing file sizes by up to 50% compared to its predecessor, the H.264.

Among the improvements of this new receiver is the ability to receive one 4K UHD signal with HDR at 10-bit 4:2:2 quality or 4 simultaneous 1080p50/59HD signals.

ASI input and Transport Stream over IP input enable its use as a standalone decoder. Besides, the ASI output and the Transport Stream over IP output enable the user to handle the receiver as a demodulator.



FEATURES

- MRC Diversity 4 or 8.
- True 4K UHD signals with HDR at 10-bit 4:2:2 quality.
- HEVC, H.264 and MPEG-2 decoding formats from 480i59 to 2160p60.
- End-to-end delay of 60ms (70ms in 4K).
- Power supply: 9 - 36 VDC and 100 - 240 VAC.

OPTIONS

- Dual Diversity.
- Transport Stream over IP.
- AES-128 and AES-256 encryption.
- Integrated autotracking antenna controlled by GPS and Compass.
- Quad Mode.

APPLICATIONS

- Fixed receiver in central receiver points.
- Wireless camera links.
- Portable receiver.
- High-performance decoder.

ACCESSORIES



DC



IF DIST



AM

CHARACTERISTICS

RF STAGE DVB-T2, DVB-T AND ISDB-T

Frequency RF range:	1.3 to 11 GHz.
Frequency IF range:	70 to 1000 MHz.
Tuning Step:	10 kHz.
Input level range:	DVB-T2 @ 2 GHz: -20 to -102 dBm. DVB-T2 @ 5 GHz: -20 to -101 dBm.
Diversity:	4 inputs UDR-104. 8 inputs UDR-108. 4+4 (Dual Diversity Option).
Diversity Technique:	MRC (Maximum Ratio Combining).
IF Input connector:	TNC 50 Ohms (Default). BNC 75 Ohms (Optional).

DEMODULATION

DVB-T2:	COFDM 1k, 2k 4k. QPSK, 16QAM, 64QAM, 256QAM. Constellation rotation. LDPC FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6. IG: 1/8, 1/16, 1/32. Bandwidth: 1.7, 5, 6, 7, 8 MHz. Max bitrate: 46.4 Mbps.
DVB-T:	COFDM 2k. QPSK, 16QAM, 64QAM. FEC: 1/2, 2/3, 3/4, 5/6, 7/8. IG: 1/8, 1/16, 1/32. Bandwidth: 5, 6, 7, 8 MHz. Max bitrate: 31.67 Mbps.
ISDB-T:	COFDM 2K, 4K and 8K mode. QPSK, 16QAM, 64QAM. FEC: 1/2, 2/3, 3/4, 5/6, 7/8. IG: 1/4, 1/8, 1/16, 1/32. Bandwidth: 6, 7, 8 MHz. Max bitrate: 31 Mbps.

DECODER

Modes:	HEVC, H.264 and Mpeg-2.
Audio decoder:	MPEG-1 Layer 1, MPEG-1 Layer 2 and AAC-LC.
Latency Encoder +:	UHD 59p = 66ms.
Decoder:	UHD 50p = 75ms. FHD 59p = 55ms. FHD 50p = 70ms. FHD 59i = 83ms. FHD 50i = 98ms.

VIDEO

Outputs:	12G-SDI. 4 x 3G-SDI, HD-SDI and SD-SDI (Optional). 1 x SFP 12G Optical interface.
Formats:	2160p – 23.98/24/25/29.97/30/50/59.94 /60 Hz. 1080p – 23.98/24/25/29.97/30/50/59.94/60 Hz. 1080i – 50/59.94/60 Hz. 720p – 23.98/24/25/29.97/30/50/59.94/60 Hz. 576i – 50 Hz. 480i – 59.94 Hz.
Profile:	4.2.2/4.2.0, 8/10-bit.
Genlock:	Tri Level Composite.

AUDIO

Channel Quantity:	Digital SDI Embedded 16 Channels.
Outputs:	Analogue 4 Channels.

DATA CHANNEL

Data channel:	User data / GPS data.
Data rate:	1,200 to 57,600 bps.

ASI & IP

Outputs and Inputs:	Transport Stream over IP (Optional). RTUP/UDP/SRT
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DECRYPTION

BISS:	BISS-1 and BISS-E.
AES (Optional):	AES-128 and AES-256.

CONTROL & MONITORIZATION

Control interfaces:	Front touch panel and display. Web server via LAN/WAN port.
Monitoring:	Decoder parameters. Demodulation parameters. Frequency and input level. MER, BER, C/N.
Video:	Alarms, warnings, logbook and clock. TFT Video screen 5".

AUTOTRACKING (OPTIONAL)

Antenna control:	Local GPS, Remote GPS, Compass and Inclinometer. Control of QPT positioner.
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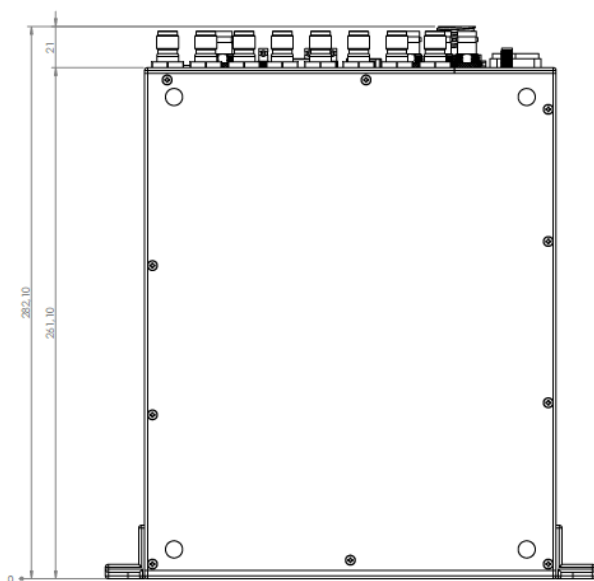
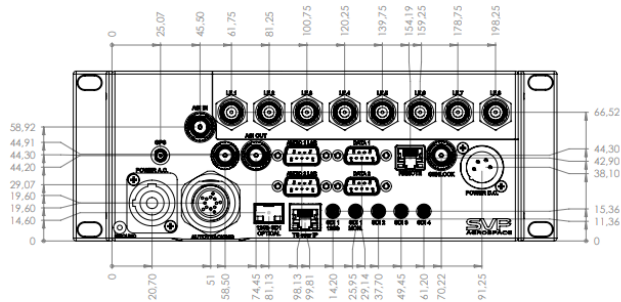
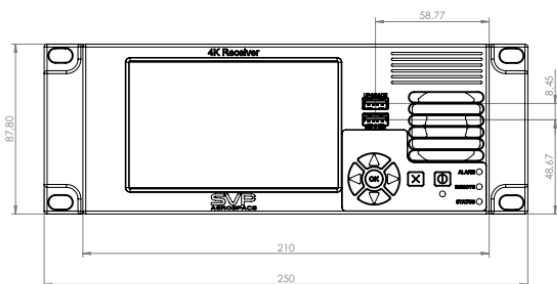
POWER SUPPLY

AC input:	100 to 240 V.
DC input:	9 to 36 V.

MECHANICAL

Size:	2 RU Half rack size.
Weight:	3.2 kg.
Temperature:	-20 to + 50 degrees.

MECHANICAL DIMENSIONS & HOW TO ORDER



UDR - 108 - B A I T Q D - U H D

