

DVB-S/S2 4K Integrated Receiver Decoder

YUK2300-4K



Overview

YUK2300-4K integrated receiver and decoder supports H.265 H.264 MPEG-2 AVS+ AVS2 video decoding. It supports RF ASI IP input, 1xHDMI/1x12G-SDI/4x3G-SDI/1xanalog stereo/1xAES/EBU output, it supports 2160P/1080P/1080I/720P/576I/480I multiple resolutions and supports DRA/AC3/EAC3/AAC/MPEG-1 and other audios.

It supports two CAM cards to descramble different signals and support BISS-1 and BISS-E decryption.

Product Features

- Support multiple input RF IP ASI
- RF input: DVB-S/S2, DVB-S2X(optional)
- Multiple output: 1xHDMI/1x12G-SDI/4x3G-SDI/1xanalog stereo/1xAES/EBU/ASI/IP
- Support H.265 H.264 MPEG-2 AVS+ AVS2 decoding
- Support DRA AAC MPEG EAC3 AC3 passthrough
- Demodulator + descrambler +re-mux+ decoder in one device
- IP (4xMPTS & 64xSPTS) output over UDP and RTP, support unicast multicast
- Support SRT RTMP RTSP HTTP HLS(M3U8) IP protocol input
- 2 ASI input, 2 ASI independent output
- Two independent CAM cards, descrambling two different signals with multi programs
- CI descrambling supports NDS, Irdeto and other conditional access systems. Adopt unique digital decoding technology and dual PCMCIA interface, receive various encrypted satellite cable terrestrial digital TV signals by replacing different PCMCIA modules.
- Support BISS-1, BISS-E decryption, support T2-MI de-encapsulation
- Compatible with HD SD signals
- Support SDR/HDR10/HLG
- Sampling rate support 4:2:2 and 4:2:0

Specification

RF Input(DVB-S/S2)

Input

1×RF input, 1×RF loop, 75Ω

Standard

DVB-S compliant
DVB-S2 compliant
VCM and ACM supported

LNB Power Supply

13V/18V/turn off, 22KHz

Supported Code Rate

DVB-S:

QPSK: 1/2, 2/3, 3/4, 4/5, 5/6, 7/8

DVB-S2:

QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

8PSK: 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

32APSK: 3/4, 4/5, 5/6, 8/9, 9/10

DVB-S2X:

64APSK: 11/15, 7/9, 4/5, 5/6

Input Frequency

950~2150MHz

Half SyQuest Baseband filler(Roll off factor)

0.35 for DVB-S

0.15 to 0.35 for DVB-S2

Maximum Symbol Rate(DVB-S)

Symbol rates: 1-54MSps

Maximum Symbol Rate (DVB-S2)

Normal(64800 bits) FECFRAME Symbol Rates:

QPSK 1-60MSps

8PSK 1-60MSps

16APSK 1-58MSps

32APSK 1-55MSps

ASI Input/Output

ASI input connector: 2×BNC, 75Ω

ASI output connector: 2×BNC, 75Ω

Executive standard: DVB-ASI, EN50083-9

Output bitrate ≤100Mb/s

TS Over IP

Connector: 1×RJ45, 10/100/1000 Base-T

Effective bitrate: 600Mb/s

Frame length: (1-7)×188 adjustable bytes

Transfer protocol: UDP RTP, support unicast multicast

SRT RTMP RTSP HTTP HLS(M3U8)

Video Decoding

Video decoding format: H.265 HEVC/MPEG4 AVC/

H.264/MPEG-2/AVS+/ AVS2

Bitrate control: VBR CBR optional

Audio Decoding

Audio decoding format: MPEG-1 layer I/II,

MPEG-2 layer II, MPEG-2 AAC, MPEG-4 AAC LC

2-CHANNEL/5.1 CHANNEL AC3/DRA/EAC3

Bitrate: 64/128/256/384Kbps

Sampling Frequency: 48/44.1/32KHz

Support volume adjustment

Support SDI embedded audio

12G/3G/HD/SD-SDI Output

Connector:

12G-SDI: 1xBNC

3G-SDI: 4xBNC

HD-SDI output: SMPTE 292M, 1.485 Gbit/s (20bit)

Output level: 800mV+-20 p-p

Resolution: 2160p25/p30/p50/p60/1080p25/p30/p50/
p59.94/i50/i59.94/720p50/p59.94/576i/480i

HDMI Output

Connector: 1xHDMI 1.4/2.0 HDMI type A

Audio: 1-ch analog stereo L & R audio (2x small XLR), 1-ch AES/EBU (1x small XLR)

Resolution: 2160p25/p30/p50/p60/1080p25/p30/p50/p59.94/i50/i59.94/720p50/p59.94/576i/480i

Audio Output

Connector: 1-ch analog stereo audio and 1-ch AES/EBU

Audio output mode: Left, Right, Dual Mono, Stereo

Local and Remote Management

Connector: 1xRJ45, 1000 Base-T

Remote control: HTTP Web

Local control: HTTP Web

Equipment upgrade: IP

Physical Specifications

Dimension(L×W×H): 610mmx530mmx150mm, 19" 1U rack

Net weight 8.0KG

Power: AC 90V~250V, 50/60Hz

Power consumption: 24W (excluding LNB power supply)

Temperature range: 0 ~ 45°C(operation), -10 ~ 60°C(storage)

Humidity: 10 ~ 90% (non-condensing)