



Distribution Class Multi-Codec Receiver / Decoder

VIDEO DECODER PROFILES

MPEG 2 SD/HD Profile :

ISO 13818-2 MP@ML and MP@HL

MPEG 4 SD/HD Profile:

ISO/IEC 14496-10 MP@L3 HP@L4.2

Supported Resolutions:

480i59.94, 576i50, 720p50/59.94/60,
1080i50/59.94/60,
1080p23.97/24/25/29.97/30

INPUTS

Sync Input:

Auto-detects Bi-Level and Tri-level sync for Genlock
Connector: 1 X BNC (75 Ohm)

DVB-ASI Input:

ASI (EN 50083-9 250 kb/s to 200 Mb/s)
Connector: 1 X BNC (75 Ohm)

IP Input:

UDP, RTP and SMPTE 2022-1 2007 FEC
Supports 1 to 7 TS packets per IP packet
IGMP v1, v2 and v3 support
TS Rate: 250 kb/s to 150 Mb/s
Receiver capability: 2 simultaneous MPEG over IP transport streams
Connector: 2 X RJ45
Connector speed: GigE (10/100/1000 Auto-Negotiate)

AUDIO PROCESSING PROFILES

Supported Audio:

Up to four pairs (eight channels) of audio
MPEG 1 Layer 2, AAC-LC, AAC-HE (v1/v2)
Dolby Digital AC-3 / Dolby Digital+ E-AC-3 stereo, discrete 5.1 surround and passthrough
Dolby E / Linear PCM passthrough

**ALL OUTPUTS OPERATE CONCURRENTLY IN SD.
CVBS INACTIVE IN HD.**

SD-SDI / HD-SDI

Standard:

Video & Audio SMPTE 259M - SD
SMPTE 292M - HD
Connector: 2 X BNC (75 Ohm)

CVBS

Standard:

SD NTSC, PAL-M, PAL-B/G,
PAL-N Composite Video Output
NTSC Pedestal selection
Black at 7.5 IRE or Black at 0 IRE
Connector: 1 X BNC (75 Ohm)

AES AUDIO

Standard:

AES3/EBU Unbalanced
Connector: 4 X BNC (75 Ohm)

ANALOG AUDIO

Standard:

Four balanced pairs via two DB15 connectors. (2 audio pairs per DB15)
Connector: 2 X DB15

VBI / VANC PROCESSING

SDI Ancillary Support:

Closed Captioning (CEA-708)
AFD (SMPTE 2016)
OP-47 (SMPTE RDD-08)
SMPTE RDD-11
SCTE 127 (SMPTE 2031)
EN301775 (SMPTE 2031)
Time Code (SMPTE 12M-2)
SCTE 35 to SCTE 104 Conversion

CVBS/SDI VBI Waveform Support:

Line 21 captions (CEA-608)
TVG2x
AMOL-48/96 (SCTE 127)
Teletext/WSS/VPS (EN 301775)

CONDITIONAL ACCESS

Standard:

DVB Common Scrambling Algorithm Basic Interoperable Scrambling System (BISS)
- Mode 0 Clear (Free To Air - FTA)
- Mode 1
- Mode E

:: TRANSPORT OUTPUTS ::

DVB-ASI OUTPUT

Asynchronous Serial Interface per EN 500083-9
ASI Mirrored from DVB-ASI Input, IP Input, or RF Input with purchase of optional tuner package.
Connector: 1 X BNC (75 Ohm)

IP OUTPUT

UDP, RTP and SMPTE 2022-2 (COP3 FEC)
Up to ten output destinations
Connector: Shares input connectors

SERVICE FILTERING

Up to ten services per output can be defined to the ASI and IP Outputs

PHYSICAL

Operating Temperature (Ambient):

-40C to +65C/-40F to +149F

Power Supply (nominal):

100 - 240 VAC

Wattage:

40W (120V @280mA)

Weight:

RD30 - 6lbs. / 2.72kgs.
RD30-LB - 7lbs. / 3.18kgs.

Measurements:

(H X W X D)
1.72" X 17.2" X 14.6"
43.68mm X 436.88mm X 370.84mm

MANAGEMENT:

Front Panel Controls
Browser-based Web Interface
SNMP
DB9 Relay for monitoring

RD-30

Hardware Models

All models include 1RU chassis, front panel, MP1L2, AAC-LC, HE-AAC v1, HE-AAC v2, Dolby Digital, Dolby Digital+, Dolby E audio decoding, Genlock and VBI Processing as standard features.

RD30	Multi-Codec Receiver / Decoder
RD30-LB	Multi-Codec Receiver / Decoder with DVB-S/S2 Demodulator

Software Options

All keys are field upgradable.

AUD-EXP	Enables two additional audio PID decode. MP1, AAC, AC3.
BISS	Enables BISS descrambling.
IP-OUT	Enables MPEG/IP FEC output.
SCTE104	Enables SCTE 35 ->104 Conversion, SCTE 35-> GPO and SCTE 35 generation.
SURROUND	Enables discrete channel audio output for surround decoding of AAC/AC3/AC3+.
SVC-FLTR	Enables PID/Service Filtering. Demultiplexer MPTS to SPTS or MPTS to Program reduced MPTS.
ESAM-POIS	Enables Cablelabs ESAM POIS Interface.

DVB-S/S2 HARDWARE OPTION

(RD30-01-LB) - The LB option is a hardware option.

DVB-CI Descrambling

(DVB-CI EN 50221)
Descrambles decoded service only without purchase of RD30-CAM-KEY.
RD30-CAM-KEY provides up to maximum amount of decryptable services supported by CAM module.

Maximum DVB-CI TS bitrate: 100 Mb/s
All major CA vendors supported

Interface: 2 X DVB-CI CAM slots

DVB-S/S2 L-Band Tuner

(DVB-S EN 300 421 and DVB-S2 EN 302 307)
Four switched L-Band inputs available for decode
Connector: 4 X F Type, Female

Modulation Schemes:

QPSK / 8PSK / 16APSK / 32APSK

Supported Roll-off:

5%, 10%, 15%, 20%, 25%, 35%

Symbol Rate Range:

1 - 60Msym/s

Frequency Range:

950 - 2150MHz

Input Level:

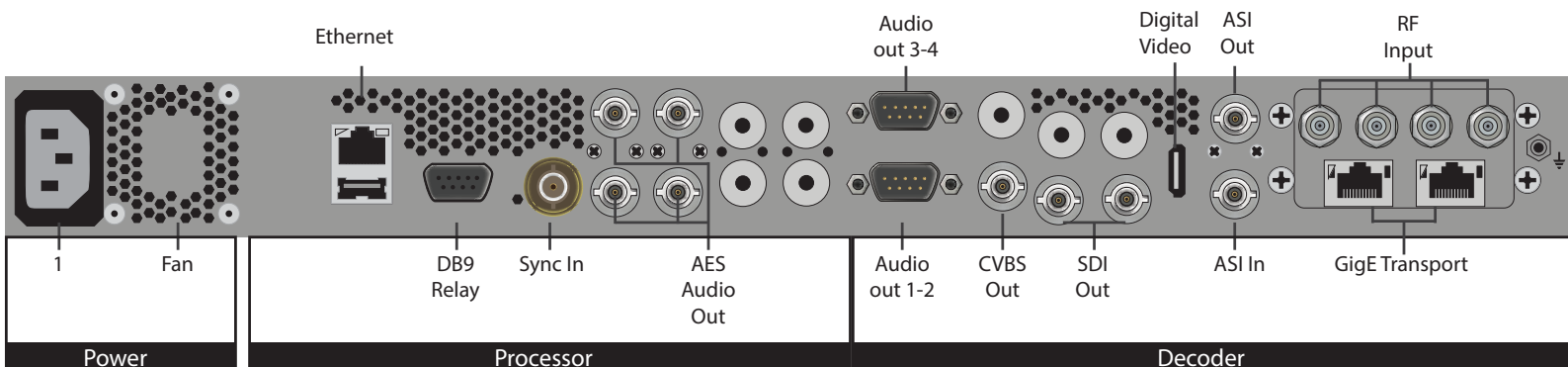
-65dBm to -25dBm

LNB Power and Control:

0, 13, 14, 18 and 19 VDC @ 450mA
22kHz (band selection according to universal LNB for ASTRA satellites)
VCM Demodulation Support
Multistream Support (Single ISI)

Demodulator Software Options

16/32APSK	DVB-S2 advanced feature license (Enables Multistream, VCM, 16/32APSK Modes).
CAM	Enables DVB-CI Multi-service.



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