

MediaKind RX8200 SkyUK CA



Advanced Modular Receiver - SkyUK CA

The MediaKind RX8200 Advanced Modular Receiver is the industry standard Integrated Receiver Decoder (IRD) for decoding content feeds. RX8200 is available in a variant that support SkyUK CA. This variant allows professional broadcasters to access SkyUK video content for turn-around applications.

As a pre-configured unit the SkyUK RX8200 variant provides Operators with the complete functionality required for their decode and interface needs.

Product Overview

Comprehensive Input Connectivity

The SkyUK variant of RX8200 comes pre-configured with DVB-S2 and IP Transport Stream and ASI inputs allowing it to interface to all connectivity architectures.

Multi-format Decoding - Including HEVC

As a true multi-format decoder, the SkyUK RX8200 is enabled for both SD MPEG-2 and HD MPEG-4 4:2:0 formats allowing operators to access all content.

Content Security

The SkyUK RX8200 variant is equipped to directly accept highly secure SkyUK smart cards so that subscribing operators can easily access all required content.

Total Connectivity

The RX8200 Advanced Modular Receiver offers the user total connectivity through a fully-fitted set of output connections - Allowing both SD and HD analogue and digital video output as well as full audio connectivity. For those needing to access descrambled Transport Stream RX8200 provides for those needs too!

Why MediaKind

The MediaKind RX8200 Advanced Modular Receiver heads its class as an IRD offering the perfect balance of industry leading capability, flexibility and affordability.

Base Unit Features

Chassis: (RX8200/BAS/BSKYB/B)

- Easy to use Dashboard web interface
- 1x ASI input transport stream input
- 4xDVB-S/S2 QPSK/8PSK satellite input
- 2x GigE IP TS inputs
- Frame Sync input
- Sky UK descrambling
- MPEG-2 & MPEG-4 AVC SD/HD 4:2:0 video decode
- MPEG-1 Layer II, AAC, Dolby Digital® audio decode
- 4x Stereo pairs of audio decoding/output
- SD & HD Video output interfaces
- Up/down/cross-conversion video processing
- Single service filtering
- Multi-service filtering
- Alarm relay and SCTE 35 controlled contact closures for ad-insertion signaling

Audio Cable Options

XLR Terminal Audio Break-Out Cable (RX8XXX/CABLE/XLR)

- XLR terminal connections for analog and digital audio output
- 1x stereo pair per breakout cable via 2x XLR connectors

Screw Terminal Audio Break-Out Cable (RX8XXX/CABLE/SCRTRM)

- Screw terminal connections for analog and digital audio output
- 1x stereo pair per breakout cable via 2x Screw terminal connectors

Specifications

Input

ASI Transport Stream Input	<p>Connector: 1x BNC (F) 75 Ohm</p> <p>Max. input rate: 208 Mbps</p> <p>Packet length: 188/204 byte packets</p> <p>Standard: EN50083-9</p>
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Satellite Input Options

2nd Generation Satellite Input, Satellite & IP input	<p>Connector: 4x F-Type (F), 75 Ohm</p> <p>Frequency range: 950 MHz to 2150 MHz</p> <p>Input level: -25 dBm to -65 dBm</p> <p>Modulation: DVB-S QPSK, DVB-S2 QPSK, 8PSK</p> <p>Standard: EN300 421, EN302 307</p> <p>DVB-S Symbol rate: 1 Msyms to 45 Msyms</p> <p>DVB-S2 Symbol rate: 1 Msyms to 60Msyms on inputs 1 & 2, Max bit rate 170Mbps, 31 Msyms, Max bit rate: 81Mbps on input 3 & 4</p> <p>FEC DVB-S : 1/2, 2/3, 3/4, 5/6, 7/8</p> <p>FEC 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</p> <p>FEC, DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10</p> <p>DVB-S2 FEC frame: Short & Normal frames</p> <p>DVB-S2 Physical layer scrambling</p> <p>LNB Power: 13V, 18V or off, 22 kHz on/off</p>
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IP Input

MPEG over Gigabit Ethernet IP Input	<p>Connector: 2 x RJ 45</p> <p>Format: 100/1000BaseT</p> <p>Max. input rate: 208Mbps</p> <p>SMPTE 2022M (Pro-MPEG) FEC</p>
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TS Output

TS Output	For ASI Out See HD & SD video out options
IP Output	<p>Transport encapsulation into IP</p> <p>MPTS/IP/UDP/RTP</p> <p>SPTS/IP/UDP/RTP with single service filtering - CBR mode</p> <p>IP output VBR mode - Null packets dropped</p> <p>2x Gigabit Ethernet outputs, 100/1000 auto-sensing</p> <p>SMPTE 2022M (Pro-MPEG) FEC</p> <p>Multiple services filtered to 1 outgoing service on ASI and IP TS output</p> <p>Remap PIDs for the filtered service</p> <p>Output: CBR on ASI and IP SPTS</p> <p>MPE based data de-encapsulation</p> <p>MPE max. bit-rate: 100 Mbps</p>

Content Security

Sky UK Descrambling	Single service SkyUK descrambling - with addition of SkyUK smartcard
Multi-Service Filtering	Filter N incoming services to M outgoing services Number of services: 24 max as 1x MPTS Remap PIDs on a single service Output: CBR on ASI and IP MPTS Stream splitting - up to 8 services as IP SPTS

Video Decoding

4:2:0 Decoding

MPEG-2 SD Decode	Profiles: MP@ML Max video rate: 15 Mbps (MP@ML) Video format: 480i and 576i 29.97, 25 fps
MPEG-4 AVC SD Decode	Profiles: MP@L3 - All units HP@L3.1—Needs MPEG-2 & 4 4:2:2 HW option Max. video rate: 12 Mbps Video format: 480i and 576i 29.97, 25 fps
MPEG-2 HD Decode	Profiles: MP@HL Max. video rate: 80 Mbps (MP@HL) Video format: 1080i at 29.97 and 25 fps, 720p at 59.94 and 50 fps
MPEG-4 AVC HD Decode	Profiles: MP@L4, HP@L4 - All units Max. video rate: 25 Mbps - All units, Video format: 1080i at 29.97 and 25 fps, 720p at 59.94 and 50 fps
VBI with 4:2:0 Decoding Modes	Closed captions, DVB Subtitle burn-in, SD resolution Teletext burn-in WST, Inverted Teletext, EBU Teletext subtitles and non-subtitles, WSS, VITC, VITC in PES, VPS, Video Index, VANC data-piping, Service name in VANC, monochrome samples, OP47 pass-through VITS, NABTS, AMOL48, AMOL96, TV Guide

Audio Decoding

Balanced Audio Output	Connector: 4x 9-Pin D-type Analog audio: two balanced stereo pairs Digital audio: two balanced stereo pairs
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4x Audio Capability	<p>Extended audio decodes</p> <p>8x MPEG-1 Layer II audio decode</p> <p>6x Dolby® Digital 2.0 decode, 5.1 to 2.0 down-mix</p> <p>4x Dolby® Digital 2.0/5.1 pass-through - compressed and embedded in (HD)SDI</p> <p>4x Dolby® Digital Plus 2.0/5/1 pass-through - compressed and embedded in (HD)SDI</p> <p>1x Dolby® Digital 5.1 decode</p> <p>8x AAC stereo pairs</p> <p>4x Dolby®E pass-through</p> <p>4x Linear PCM pass-through</p> <p>Audio sampling rate: 48 kHz</p>
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Video Processing

High Quality Format-Conversion Grade 1 quality down-conversion	<p>Simultaneous Down-conversion (HD to SD): center cut out, manual/AFD controlled</p> <p>Down-conversion from 1080p 50/60 to 1080i, 720p or SD</p>
Up-conversion	<p>Non-simultaneous up-conversion (SD to HD): To 720p or 1080i (4:2:0 modes only)</p>
Cross-conversion	<p>Non-simultaneous cross-conversion 720p to 1080i or 1080 to 720p</p> <p>No frame rate conversion</p>
Aspect Ratio Conversion	<p>16:9 to 4:3 center cut ARC in SD modes</p>
Frame Synchronization	<p>Enables Frame Sync</p> <p>Connector: 1x BNC (F) 75 Ohm</p> <p>Input signal: Analog SD HSync (black & burst)</p>

Video and TS Output

Video Output	<p>HD and SD Video Output</p> <p>Composite Video</p> <p>Connector: 1x BNC (F) 75 Ohm</p> <p>Format: PAL / NTSC</p>
Video RGB-HD (SVGA)	<p>Connector: 1x 15-pin D-type</p> <p>Format: RGB H&V/YPrPb (switchable)</p>
SDI/HD-SDI/DVB ASI-C (switchable)	<p>Connector: 3x BNC 75 ohms</p> <p>3 Gbps HD-SDI standard: SMPTE 424M</p> <p>HD-SDI standard: SMPTE 292M</p> <p>SD-SDI standard: SMPTE 259M</p> <p>Embedded Audio: SMPTE 299M (HD) SMPTE 272M (SD)</p> <p>Embedded Audio Channels: up to 8x stereo pairs</p> <p>ASI standard: EN50083-9</p>

Standard Features

Features	<p>Program selection for ATSC, DVB and MPEG-only streams</p> <p>One alarm relay, two relays under SCTE 35 control</p>
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Control

Control	Front panel keypad and LCD SNMP control, traps and alarms Web browser
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Physical and Power

Dimensions (W x D x H)	442.5 x 545 x 44mm (17.5" x 20.7" x 1.75" approx.)
Input Voltage	110 VAC / 240 VAC
Power Consumption	100W Max. (depending on options fitted)
Cooling	Integrated fan

Environmental Conditions

Operating Temperature	0°C to +50°C (32° to 122°F)
Storage Temperature	-20°C to +60°C (-4° to 140°F)
Relative Humidity	5% to 95%

Compliance

Compliance	CE Marked in accordance with all applicable EU Directives
EMC Compliance	EN55022, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR 22, ICES-003 and FCC CFR47 Part 15B Class A
Safety Compliance	EN60950-1, IEC60950-1, UL 60950-1 and CAN/CSA-C22.2 No 60950-1. NRTL Listed.