ERICSSON RX8200

Advanced Modular Receiver

Broadcasters' requirements for differing equipment configurations and the many and varied ways in which receivers are used is driving the need for a flexible receiver platform. The Ericsson RX8200 Advanced Modular Receiver has been designed to precisely meet these requirements.

By allowing each individual RX8200 to be configured and tailored to the user's precise needs the perfect balance of functionality and cost can be achieved, resulting in a unit having only the required features without the additional expense of superfluous connectivity or functionality.

The RX8200 offers a vast and sophisticated array of configuration possibilities allowing it to cover a broad range of applications. The RX8200 can be tailored to standard definition or high definition uses with MPEG-2 or MPEG-4 decode technology in both 4:2:0 and 4:2:2 modes while connectivity into the receiver is achieved with DVB-S2 satellite, IP and ASI options.

The high powered processing capabilities of the RX8200 enable the unit to be simply and easily upgraded in the field with additional software options to increment the functionality at any point after initial installation.

PRODUCT OVERVIEW

A New Receiver With an Unrivalled Pedigree

The RX8200 Advanced Modular Receiver is Ericsson's fourth-generation receiver that builds on the success and knowledge of previous generations of products to ensure an unrivalled level of quality and reliability.

Increased Distribution Capacity and Efficiency

The RX8200 Advanced Modular Receiver, in combination with Ericsson's MPEG-4 AVC Encoders and DVB-S2 PREKOR™ Satellite Modulators achieves a level of bandwidth efficiency that is unrivalled allowing more HD services per transponder compared with any competing solution.

Wide Choice of Inputs and Outputs for Enhanced Connectivity

The RX8200 can be integrated into a variety of system architectures, including ASI, IP and satellite delivery systems through a choice of input and output modules. The receiver offers a multitude of IP, audio and video outputs for high quality delivery to all major onward networks.

Simplified Control and Lower Cost of Operations

Organizations with large populations of RX8200 Advanced Modular Receivers or other Ericsson receivers can simplify control by integrating with the Director by Ericsson control system. Director provides remote, over-air, single-view control from a central location, reducing the need for on-site local operators.

BASE UNIT FEATURES

RX8200 – Advanced Modular Receiver (RX8200/BAS)

The following features are available as standard:

- 1x ASI input transport stream input
- Front panel control
- Web browser and SNMP remote control
- Alarm relay and SCTE 35 controlled contact closures for ad-insertion signaling
- Many sophisticated, additional hardware and software based modules available as options

RX8200 – Advanced Modular Receiver (RX8200/BAS/2)

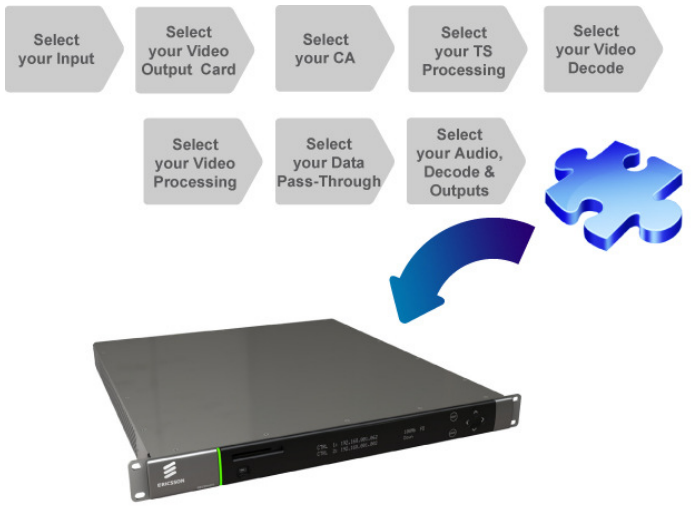
Functionality as above with the addition of:

- Base unit includes MPEG-2 and MPEG-4 4:2:2 decoder card (functionality enabled via additional license keys)

CONFIGURATION PHILOSOPHY

The RX8200 Advanced Modular Receiver offers ultimate configurability at the point of order allowing the unit to be tailored to your precise needs incorporating just the functionality you require thus allowing an individual and optimal balance of price against functionality.

To configure your individual receiver follow this simple configuration philosophy to allow easy selection of all the features that you require.



INPUT OPTIONS

The RX8200 Advanced Modular Receiver has a single ASI input as standard and can in addition be configured with one additional choice of inputs type.

Satellite Input options

The RX8200 satellite input modules come with DVB-S QPSK support as standard. The unit can optionally be licensed to support the new highly efficient DVB-S2 satellite transmission standard.

DVB-S2 Capable Satellite Demodulator (RX8200/HWO/DVBS2)

- 4x L-band inputs
- DVB-S QPSK demodulation
- DVB-S2 QPSK, 8PSK demodulation with license keys

Second Generation DVB-S2 Capable Satellite Demodulator (RX8200/HWO/DVBS2/2)*

- 4x L-band inputs
- DVB-S QPSK demodulation
- DVB-S2 QPSK, 8PSK, 16APSK demodulation with license keys
- DVB-S2 Variable Coding and Modulation (VCM) multi-transport stream capability with license key

DVB-S2 QPSK License (RX82XX/SWO/DVBS2/QPSK)

- Adds DVB-S2 QPSK capability to DVB-S2 input option card

DVB-S2 8PSK License (RX82XX/SWO/DVBS2/8PSK)

- Adds DVB-S2 QPSK, 8PSK capability to DVB-S2 input option card

DVB-S2 16APSK License (RX82XX/SWO/DVBS2/16APSK)*

- Adds DVB-S2 QPSK, 8PSK and 16APSK capability to DVB-S2 input option card
- Second generation DVB-S2 card (RX8200/HWO/DVBS2/2) only

DVB-S2 VCM License (RX82XX/SWO/DVBS2/VCM)*

- Provides DVB-S2 Variable Coding and Modulation multi-transport stream capability
- Single transport stream output from receiver
- Second-generation DVB-S2 card (RX8200/HWO/DVBS2/2) only

DVB-S2 Low Symbol Rate License (RX82XX/SWO/DVBS2/LSYM)

- Enables DVB-S2 symbol rate of 1 Msym/s to 5 Msym/s

IP Transport Stream Input Options

The RX8200 may be configured with IP transport stream input connectivity via the following options.

100/1000BaseT Input (RX8200/HWO/IP/GIGE)

- MPEG transport stream over IP
- 2x 100/1000BaseT input
- Very low latency

SMPTE 2022 Pro-MPEG FEC License (RX8200/SWO/IP/PROMPEG)

- Enables SMPTE 2022 Pro-MPEG FEC capability for the IP input card
- Requires IP input card

G.703 ATM Input Option

The RX8200 may be configured with G.703 ATM connectivity.

G703 ATM Input (RX8200/HWO/G703)

- E3 or DS-3 inputs
- 34 Mbps or 45 Mbps rates

Input Redundancy

The RX8200 Advanced Modular Receiver offers as standard automatic redundancy switching between ASI input and the additional input option. This redundancy switching capability may be further enhanced with the following option.

Null Packet Detection Redundancy Switching (RX82XX/SWO/NULL)

- Redundancy switching from primary to secondary input triggered by presence of null packets in the incoming stream
- User definable percent of null packets to trigger redundancy switch

*Check availability

VIDEO AND TRANSPORT STREAM OUTPUT OPTIONS

The RX8200 Advanced Modular Receiver offers the option of an SD only or HD and SD capable video output card. Both video output card options also provide ASI transport stream output connectivity. IP transport stream output capability may additionally be specified.

SD Video and ASI Output (RX8200/HWO/SD)

- 2x composite video outputs
- 2x switchable ASI/SDI outputs

HD and SD Video and ASI Output (RX8200/HWO/HD)

- 1x composite video output
- 1x RGB/YPrPb analog video output
- 3x switchable ASI/SDI/HD-SDI outputs

3 Gbps HD and SD Video and ASI Output (RX8200/HWO/HD/3G)

- 1x composite video output
- 1x RGB/YPrPb analog video output
- 3x switchable ASI/SDI/HD-SDI outputs
- 3 Gbps HD-SDI output compatible with MPEG-4 4:2:2 1080p50/60 capability

IP Transport Stream Output (RX8200/HWO/IP/OUT)

- Encapsulation of transport stream output into IP multicast
- MPTS or single SPTS output stream
- 2x Gigabit Ethernet RJ-45 interfaces capability

CONDITIONAL ACCESS OPTIONS

The RX8200 Advanced Modular Receiver supports many types of widely used conditional access systems to allow for secure transmission of content. By default the RX8200 is fitted with the capability to accept a Conditional Access Module. Alternatively the RX8200 may be ordered with the capability to directly accept NDS BSkyB CA smart cards.

Director by Ericsson (RX8200/SWO/DIR)

- Director CA
- Director over-air control
- Director over-air software downloads

Director by Ericsson Multi-service Decryption (RX8200/SWO/DIR5/MSD)

- Multi-service decryption for Director by Ericsson

DVB Common Interface (RX8200/SWO/CI)

- Enables support for Conditional Access modules

DVB Common Interface Multi-service Decryption (RX8200/SWO/MSD)

- Multi-service decryption DVB Common Interface

BISS CA (RX8200/SWO/BISS)

- BISS Mode 1 and BISS Mode E descrambling

BISS Multi-service CA (RX8200/SWO/BISS/MSD)

- Multi-service decryption for BISS
-

NDS BSkyB CA (RX8200/HWO/BSKYB)*

- Single service decryption for BSkyB services
- Mutually exclusive with other CA types

Ericsson RAS CA (RX8200/SWO/RAS)

- Ericsson RAS 1

Ericsson Signal Protection CA (RX8200/SWO/SP)

- Ericsson Signal Protection CA

STREAM PROCESSING OPTIONS

The RX8200 Advanced Modular Receiver offers as sophisticated choice of transport stream processing capability allowing the unit to operate as a cost effective network interface into a headend or transport stream turn-around system

Single Service Filtering (RX8200/SWO/SING/SERVFILT)

- Filter multiple services to output a single service
- Re-map PIDs for the outgoing service

Multi-Service Filtering (RX8200/SWO/MULT/SERVFILT)

- Filter N multiple incoming services to M outgoing services
- Re-map PIDs for a single service
- CBR MPTS transport stream output
- Service splitting for multiple IP SPTS output

VIDEO DECODING OPTIONS

The RX8200 Advanced Modular Receiver provides capability to decode every video compression standard in use today including support for the highest quality MPEG-4 AVC 4:2:2 standard.

In order to offer ultimate cost effectiveness and flexibility 4:2:2 and 4:2:0 video standards are ordered separately.

4:2:0 Decode Options

MPEG-2 SD 4:2:0 Decoding (RX8200/SWO/MPEG2/SD)

- Enables MPEG-2 SD 4:2:0 decoding

MPEG-2 HD 4:2:0 Decoding (RX8200/SWO/MPEG2/HD)

- Enables MPEG-2 SD and HD 4:2:0 decoding

MPEG-4 AVC SD 4:2:0 Decoding (RX8200/SWO/MP2/MP4/SD)

- Enables MPEG-2 and MPEG-4 AVC SD 4:2:0 video decoding

MPEG-4 AVC HD 4:2:0 Decoding (RX8200/SWO/MP2/MP4/SD/HD)

- Enables MPEG-2 SD and HD, MPEG-4 AVC SD and HD 4:2:0 decoding

*Check availability

4:2:2 Decode Options

MPEG-2 4:2:2 Decoding Hardware (RX8200/HWO/MP2/422)
- Dormant hardware for MPEG-2 4:2:2 decoding
- Enable MPEG-2 4:2:2 decoding with additional options

MPEG-2 SD 4:2:2 Decoding (RX8200/SWO/MP2/422/SD)
- Enables MPEG-2 SD 4:2:2 decoding
- Requires MPEG-2 4:2:2 only hardware or MPEG-2 & 4 4:2:2 hardware (RX8200/BAS/2)

MPEG-2 HD 4:2:2 Decoding (RX8200/SWO/MP2/HD/422)
- Enables MPEG-2 HD 4:2:2 decoding
- Requires MPEG-2 SD 4:2:2 decoding option

MPEG-2 and MPEG-4 AVC SD 4:2:2 Decoding (RX8200/SWO/MP4/422/SD)
- Enables MPEG-4 AVC SD 4:2:2 decoding
- Enables MPEG-2 SD 4:2:2 decoding
- Requires RX8200/BAS/2 unit

MPEG-2 and MPEG-4 AVC HD 4:2:2 Decoding (RX8200/SWO/MP4/422/HD)
- Enables MPEG-4 AVC HD 4:2:2 decoding
- Enables MPEG-2 HD 4:2:2 decoding
- Requires MPEG-2 and MPEG-4 AVC SD 4:2:2 option

MPEG-4 AVC HD 4:2:2 1080p 50/60 Decoding (RX8200/SWO/HDSDI/3G)*
- Enables MPEG-4 AVC HD 4:2:2 1080p50/60 decoding
- Enables 3Gig HD-SDI output
- Requires MPEG-2 and MPEG-4 AVC HD 4:2:2 decoding option
- Requires 3Gig HD-SDI output card option

VIDEO PROCESSING OPTIONS

The RX8200 Advanced Modular Receiver offers a wide range of video processing options to allow the decoded video to easily interface to HD and SD infrastructures.

High Quality Down-conversion (RX8200/HWO/HQDCONV)
- Grade 1 quality Down-conversion of HD to SD
- Provides broadcast quality down-conversion allowing one HD transmission to address both HD and SD distribution needs
- Simultaneous presentation of HD and SD on video output interfaces

Down-conversion (RX8200/SWO/DCONV)
- Grade 2 quality Down-conversion of HD to SD
- Simultaneous presentation of HD and SD on video output interfaces

Up-conversion (RX8200/SWO/UPCONV)
- Up-conversion of SD to HD resolution
- Non-simultaneous up-conversion to 720p or 1080i resolution

Cross-conversion (RX8200/SWO/XCONV)
- Conversion of HD video from 720p to 1080i or from 1080i to 720p

Low Latency Decode (RX8200/SWO/LDELAY)
- Low latency video decode
- Compatible with MPEG-1 Layer-II, Dolby® Digital or AAC audio options

Frame Sync Input (RX8200/SWO/FSYNC)
- Synchronizes the IRD to the house black and burst reference
- Frame Sync functionality often partners 4:2:2 decoding applications

DATA AND CONTROL OPTIONS

The RX8200 Advanced Modular Receiver can be further enhanced by a range of data pass-through and remote control capabilities.

RS232 Remote Control and Data (RX8200/HWO/RS232)
- RS232 remote control - Alteia protocol
- RS232 data output

High speed IP data output (RX8200/SWO/IP/DATA)
- MPE based data de-encapsulation of IP data
- Requires IP TS output option (RX8200/HWO/IP/OUT)

AUDIO OPTIONS

The RX8200 Advanced Modular Receiver provides many different audio capabilities to allow optimal connectivity for many wide-ranging and varied applications.

Capability for MPEG-1 Layer II audio is provided with any video decode license. Decoded audio will be embedded in (HD)SDI outputs and output via physical audio interfaces if ordered.

Balanced Audio Output (RX8200/HWO/BAL/AUD)
- 2 x stereo pairs of balanced analog and digital outputs
- Order QTY two for 4x stereo pair capability

Dolby® Digital Decode (RX8200/SWO/AC3)
- Enables decoding or pass-through of Dolby Digital Audio
- 2x 5.1 decode and down-mix to 2.0 (stereo)
- 2x 2.0/5.1 pass-through -compressed and embedded in (HD)SDI

AAC Audio decode (RX8200/SWO/AAC)
- 2x AAC-LC and HE-AAC decoding

4x Audio Capability (RX8200/SWO/4AUD)
- Enables up to six decodes
- Enables pass-through of audio services three and four
- Compatible with MPEG-1 Layer II, Dolby Digital, AAC, Dolby®E and linear audio
- Embeds up to six channels of audio into the (HD) SDI video output
- Requires QTY two audio output cards if four stereo pairs of physical audio interfaces are desired

XLR Terminal Audio Break-Out Cable (RX8XXX/CABLE/XLR)
- Provides XLR terminal connections for analogue and digital audio output
- 1x stereo pair per breakout cable via 2x XLR connectors

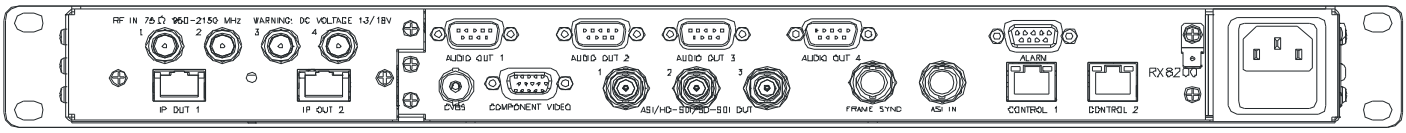
Screw Terminal Audio Break-Out Cable (RX8XXX/CABLE/SCRTRM)
- Provides screw terminal connections for analog and digital audio output
- 1x stereo pair per breakout cable via 2x Screw terminal connectors

OTHER OPTIONS

The RX8200 Advanced Modular Receiver may be configured to offer the following additional functionality as required

Password Protection of Web Browser (RX8200/SWO/PW)
- Protects Web browser from malicious or accidental changes

SAMPLE CONFIGURATION



Sample configuration with: Satellite input, frame sync, HD video output, IP transport stream output and 2x Audio output modules installed

SPECIFICATIONS

Standard Features

Input Interfaces

ASI Transport Stream Input

Connector: 1x BNC (F) 75 Ohm

Max. input rate: 160 Mbps

Packet length: 188/204 byte packets

Standard: EN50083-9

Features

Program selection for ATSC, DVB and MPEG-only streams

One alarm relay, two relays under SCTE 35 control

Service cycling through all decodable services

Control

Front panel keypad and LCD

SNMP control, traps and alarms

Web browser

Input Options

Satellite Input Options

Satellite Input (RX8200/HWO/DVBS2) and (RX8200/HWO/DVBS2/2*)

Connector: 4x F-Type (F), 75 Ohm

Modulation: DVB-S QPSK

Standard: EN300 421

Frequency range: 950 MHz to 2150 MHz

Input level: -25 dBm to -65 dBm

Symbol rate: 1 Msym/s to 45 Msym/s (DVB-S), 1^{y}(5) Msym/s to 31 Msyms (DVB-S2)

FEC, DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8

LNB Power: 13V, 18V or off, 22 kHz on/off

DVB-S2 Satellite Input (RX8200/SWO/DVBS2/QPSK)

Modulation: DVB-S2 QPSK

Standard: EN302 307

Symbol rate: 5 to 31 (60*) Msym/s

Bit-rate: 81 (155*) Mbps Max

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

DVB-S2 FEC frame: Short frames*, Normal frames

DVB-S2 Satellite Input (RX8200/SWO/DVBS2/8PSK)

Includes DVB-S2 QPSK functionality

Modulation: DVB-S2 8PSK

FEC, DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

DVB-S2 Satellite Input (RX8200/SWO/DVBS2/16APSK)*

Includes DVB-S2 QPSK and 8PSK functionality

Modulation: DVB-S2 16APSK

FEC, DVB-S2 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

DVB-S2 Low Symbol Rate (RX8200/SWO/DVBS2/LSYM)

Symbol rate - extended to 1 to 31 (60*) Msym/s

Applies to DVB-S2 modes only

IP Input Options

MPEG over Gigabit Ethernet IP input (RX8200/HWO/GIGE)

Connector: 2 x RJ 45

Format: 100/1000BaseT

SMPTE 2022 Pro-MPEG FEC (RX8200/SWO/IP/PROMPEG)

SMPTE 2022 (Pro-MPEG) FEC

G703 Input Options

Ericsson G.703 (RX8200/HWO/G703)

Connector: BNC (F)

Network: G.703 compliant PDH

Input: E3 or DS-3 (selectable)

Bit-rates: 34 Mbps or 45 Mbps versions

*Check availability

Video and TS Output Options

Video Output Options

SD Video Output (RX8200/HWO/SD)

Composite Video

Connector: 2x BNC (F) 75 Ohm

Format: PAL / NTSC

SDI/DVB ASI-C (Switchable)

Connector: 2x BNC 75 ohms

SD-SDI standard: SMPTE 259M

Embedded Audio: SMPTE 272M (SD)

Embedded Audio Channels: two, four or six stereo pairs

ASI standard: EN50083-9

HD and SD Video Output (RX8200/HWO/HD) and (RX8200/HWO/HD/3G)

Composite Video

Connector: 1x BNC (F) 75 Ohm

Format: PAL / NTSC

Video RGB-HD (SVGA)

Connector: 1x 15 pin D-type

Format: RGB H&V/YPrPb (switchable)

SDI/HD-SDI/DVB ASI-C (switchable)

Connector: 3x BNC 75 ohms

3 Gbps HD-SDI standard: SMPTE 424M

HD-SDI standard: SMPTE 292M

SD-SDI standard: SMPTE 259M

Embedded Audio: SMPTE 299M (HD) SMPTE 272M (SD)

Embedded Audio Channels: two, four or six stereo pairs

ASI standard: EN50083-9

TS Output Options

For ASI Output See HD and SD video output options

IP Output (RX8200/HWO/IP/OUT)

Transport encapsulation into IP

MPTS/IP/UDP

SPTS/IP/UDP with single service filtering - CBR mode

IP output VBR mode - Null packets dropped

2x GigE outputs, 100/1000 auto-sensing

SPECIFICATIONS

Conditional Access Options

Director by Ericsson (RX8200/SWO/DIR5)

Director single service decryption

Director over-air remote control

Director by Ericsson Multi-service decryption (RX8200/SWO/DIR5/MSD)

Director multi-service decryption

Decryption of up to 24 services

DVB Common Interface (RX8200/SWO/CI)

Enables support for all major CAM modules

Single service decryption

Service pre-filtering

DVB Common Interface Multi-Service Decryption (RX8200/SWO/MSD)

Single CAM, up to 10 services or 24 PIDs

BISS Decryption (RX8200/SWO/BISS)

Decryption of BISS Mode 1 and E

BISS Multi-Service Decryption (RX8200/SWO/BISS/MSD)

Decryption of up to 24 services

Multiple BISS keys*

NDS BSkyB CA (RX8200/HWO/BSkyB)*

Accepts BSkyB smart card

Single service descrambling

Mutually exclusive with other CA types

RAS Decryption (RX8200/SWO/RAS)

Decryption of Ericsson RAS 1

Signal Protection Decryption (RX8200/SWO/SP)

Decryption of Ericsson Signal Protection

Stream Processing Options

Single Service filtering (RX8200/SWO/SING/SERVFILT)

Filter multiple services to 1 outgoing service

Remap PIDs for the filtered service

Output: CBR on ASI and IP SPTS

Multi-Service filtering (RX8200/MULT/SERVFILT)

Filter N incoming services to M outgoing services

Number of services: 24 max.

Remap PIDs on a single service

Output: CBR on ASI and IP MPTS

Stream splitting - up to eight services as IP SPTS

Video Decoding Options 4:2:0 Decoding

MPEG-2 SD Decode (RX8200/SWO/MPEG2/SD)

Profiles: MP@ML

Max video rate: 15 Mbps (MP@ML)

Video format: 480i and 576i 29.97, 25 fps

MPEG-2 HD Decode (RX8200/SWO/MPEG2/HD)

Includes MPEG-2 SD 4:2:0

Profiles: MP@HL

Max. video rate: 80 Mbps (MP@HL)

Video format: 1080i at 29.97, 30 and 25 fps 720p at 59.94, 60 and 50 fps

MPEG-4 AVC SD Decode (RX8200/SWO/MP2/MP4/SD)

Includes MPEG-2 SD 4:2:0

Profiles: MP@L3

Max. video rate: 12 Mbps

Video format: 480i and 576i 29.97, 25 fps

MPEG-4 AVC HD Decode (RX8200/SWO/MP2/MP4/SD/HD)

Includes MPEG-2 SD and HD 4:2:0

Includes MPEG-4 AVC SD

Profiles: MP@L4, HP@L4

Max. video rate: 25 Mbps

Video format: 1080i at 29.97, 30 and 25 fps 720p at 59.94, 60 and 50 fps

VBI with 4:2:0 decoding modes

Closed captions, DVB Subtitle burn-in

WST, Inverted Teletext, EBU Teletext subtitles and non-subtitles, WSS, VITC, VITC in PES, VPS, Video Index, AFD Pass-through, VANC data-piping, Service name in VANC

VITS, NABTS, AMOL 48, AMOL 96, TV Guide

4:2:2 decoding

MPEG-2 SD 4:2:2 (RX8200/SWO/MP2/4:2:2/SD)

Profile: 422@ML

Max. video rate: 50 Mbps

Video format: 480i and 576i 29.97, 25 fps

MPEG-2 HD 4:2:2 (RX8200/SWO/MP2/HD/422)

Profiles: 422P@HL

Max. video rate: 90 Mbps

Video format: 1080i at 29.97, 30 and 25 fps, 720p at 59.94, 60 and 50 fps

MPEG-4 AVC SD 4:2:2 (RX8200/SWO/MP4/422/SD)

Includes MPEG-2 SD 4:2:2

MPEG-4 Profile: 422HP@L3

Max. video rate: 50 Mbps

Video format: 480i and 576i 29.97, 25 fps

MPEG-4 AVC HD 4:2:2 Decode (RX8200/SWO/MP4/422/HD)

Requires RX8200/BAS/2 unit

Includes MPEG-2 HD 4:2:2

MPEG-4 Profiles: HIGH / HIGH10 / HIGH422@L4.2

Sampling: 8-bit and 10-bit

Max. video rate: 50 Mbps CABAC, 85 Mbps CAVLC

Video format: 1080i at 29.97 and 25 fps 720p at 59.94 and 50 fps

MPEG-4 AVC HD 4:2:2 1080p 50/60 decode (RX8200/SWO/HDSDI/3G)*

Profiles: 422HP@L4.2

Max video rate: 85 Mbps CAVLC

Video format: 1080p at 59.94 and 50fps

VBI with 4:2:2 decoding modes

Closed Captions, VITC, VBI in PIX

Video Processing Options

High Quality Down-conversion (RX8200/HWO/HQDCONV)*

Grade 1 quality down-conversion

Simultaneous Down-conversion (HD to SD): center cut out, manual/AFD controlled

Down-conversion (RX8200/SWO/DCONV)

Grade 2 quality down-conversion

Simultaneous Down-conversion (HD to SD): full frame, center cut out, letter box, anamorphic - manual/AFD controlled

Up-Conversion (RX9200/SWO/UPCONV)

Non-simultaneous up-conversion (SD to HD): To 720p or 1080i (4:2:0 modes only)

Cross-Conversion (RX9200/SWO/CCONV)

Non-simultaneous cross-conversion 720p to 1080i or 1080 to 720p

No frame rate conversion

Frame Synchronization (RX8200/SWO/FSYNC)

Enables Frame Sync

Connector: 1x BNC (F) 75 Ohm

Input signal: Analog SD Hsync (black and burst)

*Check availability

SPECIFICATIONS

Data and Control Options

RS232 remote control and data (RX8200/HWO/RS232)

Remote control connector: 1x 9-pin D-type

RS232 remote control

Ericsson Alteia protocol

RS232 data connector: 1x 9-pin D-type

RS232 asynchronous data

RS232 data rate: Max. 38.4 kbps

IP high speed data (RX8200/SWO/IP/DATA)

MPE based data de-encapsulation

Max. bit-rate: 100 Mbps

Requires IP TS output card

Audio Options

Balanced Audio Output (RX8200/HWO/BAL/AUD)

Connector: 2x 9-Pin D-type

Analog audio: two balanced stereo pairs

Digital audio: two balanced stereo pairs

Order QTY 0, 1 or (2 - requires RX8200/SWO/4AUD)

Standard with any video decode option:

2x MPEG-1 Layer-II audio decode

2x Dolby®E pass-through

2x Linear PCM decode

Audio sampling rate: 48 kHz

Decoded audio gain adjustment

Dolby® Digital (RX8200/SWO/AC3)

2x Dolby Digital 5.1 decode and down-mix to 2.0

2 x Dolby Digital 2.0/5.1 pass-through compressed and embedded in (HD)SDI

AAC Audio (RX8200/SWO/AAC)

2x 5.1 down-mix to 2.0

2x 2.0 decode

1x 5.1 decode

4x Audio Capability (RX8200/SWO/4AUD)

Extends licensed audio decodes to more channels

6x MPEG-1 Layer II audio decode

6x Dolby Digital 2.0 decode, 5.1 to 2.0 down-mix

4x Dolby Digital 2.0/5.1pass-through - compressed and embedded in (HD)SDI

6x 5.1 AAC down-mix to 2.0

6x 2.0 AAC decode

4x DolbyE pass-through

4x Linear PCM pass-through

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

120W 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

CE marked in accordance with EU Low Voltage and EMC Directives

EMC Compliance

EN55022, EN61000-3-2[10], EN61000-3-3[10], EN55024, CISPR22, FCC CFR47 Part 15B Class A

Safety Compliance

EN60950-1, IEC60950-1, UL60950-1

*Check availability

Americas
Ericsson Television Inc.

Tel: +1 (678) 812 6300
Email: tvsalesamericas@ericsson.com

Asia Pacific
Ericsson Television Limited

Tel: +852 2590 2388
Email: tvsalesapac@ericsson.com

Australasia
Ericsson Television Pty Limited

Tel: +61 2 9111 4999
Email: tvsalesanz@ericsson.com

EMEA
Ericsson Television Limited

Tel: +44 (0)23 8048 4000
Email: tvsalesemea@ericsson.com