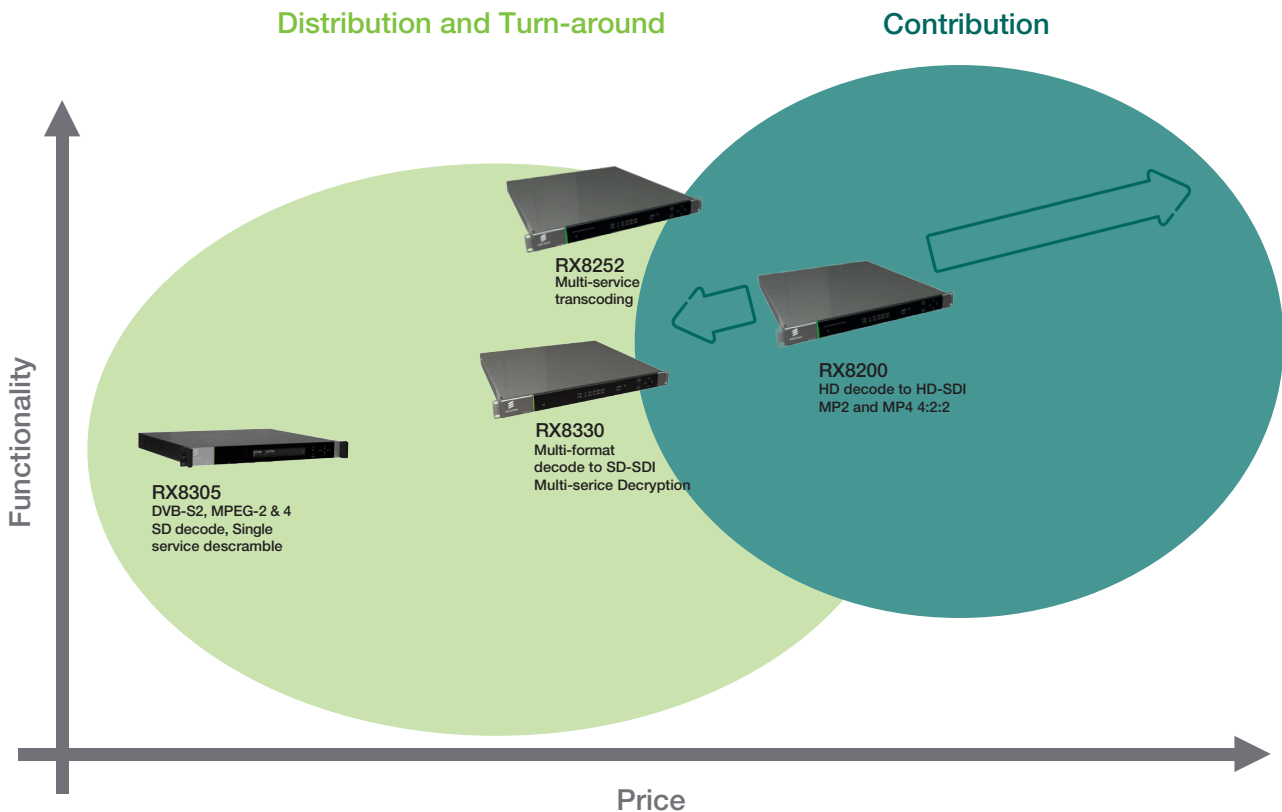# ERICSSON'S RECEIVER GUIDE

ERICSSON'S RECEIVER RANGE

Ericsson's receiver portfolio is designed to provide a range of receivers that is second-to-none in offering the best combination of quality, functionality and value for money. By providing different products suitable for a variety of applications, broadcasters can be confident in finding a product that suits their requirements and budget.

This guide lists the Ericsson receiver portfolio and highlights their differing applications and functionalities.

A Receiver for Every Application

Each of Ericsson's receivers are designed for applications and price brackets addressing different uses such as transport stream turn-around for cable or IPTV headends, to large scale program distribution projects to high end, high quality content contribution.

Distribution and Turn-around

Contribution

RX8252
Multi-service transcoding

RX8200
HD decode to HD-SDI
MP2 and MP4 4:2:2

RX8330
Multi-format decode to SD-SDI
Multi-serice Decryption

RX8305
DVB-S2, MPEG-2 & 4
SD decode, Single service descramble

Functionality

Price

RX8300 Series Distribution Receivers

The Ericsson RX8300 range of Distribution Receivers are perfectly optimized for receiving and turning round content off air - capable of decoding video content and descrambling transport streams for turn-around systems.

RX8305 Distribution Receiver

The RX8305 receiver provides the core capabilities that every broadcaster needs by combining a DVB-S2 capable satellite input with MPEG-2 and MPEG-4 AVC SD 4:2:0 video decoding. The unit can be equipped with ASI transport stream outputs, SDI digital video outputs as well as standard CVBS analog video outputs.

RX8330 Distribution Receiver

Equipped with a sophisticated DVB-S/DVB-S2 satellite front-end, the RX8330 Distribution Receiver provides compatibility with DVB Common Interface CA, Director by Ericsson and BISS systems for maximum flexibility. By offering both decryption and high quality SDI video decode options for any 4:2:0 video standard, the RX8330 provides capability to perfectly match the needs for video distribution applications for turn-around of content into both analog and digital networks.

RX8252 Program Transcoder

Ericsson's RX8252 Program Transcoder allows content originators to benefit from the bandwidth and operational cost advantages of DVB-S2 and MPEG-4 AVC, while still maintaining a cost-effective interface into legacy MPEG-2 systems

The Ericsson RX8252 Program Transcoder offers high density MPEG-4 AVC to MPEG-2 transcoding, in conjunction with superior video quality, allowing the programmer to distribute using MPEG-4 AVC compression while maintaining compatibility with down-stream legacy MPEG-2 equipment.

The RX8252 ensures that security of the video content is maintained through its support of many open standards CA systems. Management and access to the video content can be further enhanced through Ericsson's Director receiver control system which, in addition to providing secure decode rights management can also allow over-air control of the entire receiver population from one central location.

ERICSSON'S RECEIVER RANGE

RX8200 Advanced Modular Receiver

Broadcasters' requirements for differing equipment configurations and the many and varied ways in which receivers are used are driving the need for a flexible receiver platform.

The Ericsson RX8200 Advanced Modular Receiver has been designed to specifically 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 with all the required features without the additional expense of superfluous connectivity or functionality.
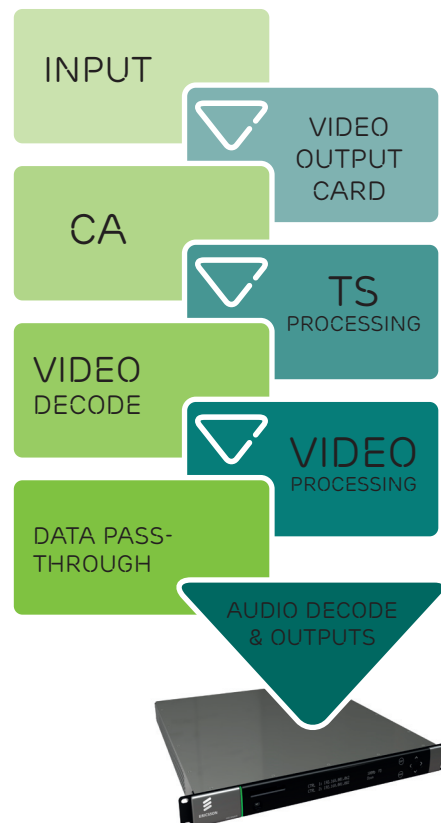
The RX8200 builds on the success and knowledge of previous generations of products to ensure an unrivalled level of quality and reliability. The RX8200 can be tailored to standard definition or high definition uses with MPEG-2 or MPEG-4 AVC decode technology while connectivity to the receiver is achieved with DVB-S2 satellite, IP and ASI options.

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.

SELECT YOUR...

INPUT

VIDEO OUTPUT CARD

CA

TS PROCESSING

VIDEO DECODE

VIDEO PROCESSING

DATA PASS-THROUGH

AUDIO DECODE & OUTPUTS

RECEIVER PORTFOLIO FUNCTIONALITY

The following table details a comparison of functionality across Ericsson's portfolio of receivers.

FEATURE	RX8305	RX8330	RX8252	RX8200
Transport Stream Inputs				
ASI Input	x	D	D	D
DVB-S/S2 Satellite Input	D	D	H	H
Combined DVB-S/S2 & IP Input	x	x	x	H
DVB-T/T2 Terrestrial Input	x	x	x	H
IP TS Input	x	x	H	H
ProMPEG-FEC (SMPTE 2022M)	x	x	S	S
G.703 Input	x	x	x	H
Conditional Access				
Single Service Common Interface CA	D	D	D	D
Multi-Service Common Interface CA	x	S	S	S
CAM Menu Browsing	D	D	D	D
Single Service Director CA	D	D	D	D
Multi-Service Director CA	x	S	S	S
Single Service BISS CA	D	D	D	D
Multi-Service BISS CA	x	S	S	S
Single Service BSkyB CA	x	x	x	H
RAS	x	x	x	S
Transport Stream Processing				
Single service filtering	x	S	S	S
Multi-Service Filtering (MPTS Out)	x	S	S	S
Multi-Service Filtering, Stream Splitting	x	S	S	S
Single Service PID Remapping	x	S	S	S
Video Decode				
MPEG-2 SD 4:2:0	S	S	S	S
MPEG-2 SD 4:2:2	x	x	x	H/S
MPEG-2 HD 4:2:0	x	S (SD Out)	S (SD Out)	S
MPEG-2 HD 4:2:2	x	x	x	H/S
MPEG-4 SD 4:2:0	S	S	S	S
MPEG-4 SD 4:2:2	x	x	x	H/S
MPEG-4 HD 4:2:0	x	S (SD Out)	S (SD Out)	S
MPEG-4 HD 4:2:2	x	x	x	H/S
MPEG-4 HD 4:2:0 1080p 50/60 fps	x	x	x	H/S
MPEG-4 4:2:2 10-bit	x	x	x	H/S
MPEG-4 HD 4:2:2 1080p 50/60 fps	x	x	x	H/S
JPEG-2000 SD	x	x	x	H/S
JPEG-2000 HD	x	x	x	H/S
Low Latency Decode	x	x	x	H/S

FEATURE	RX8305	RX8330	RX8252	RX8200
Video Transcode (4:2:0)				
MPEG-4 SD to MPEG-2 SD	x	x	S	x
MPEG-4 HD to MPEG-2 SD	x	x	S	x
MPEG-4 HD to MPEG-2 HD	x	x	S	x
MPEG-2 SD to MPEG-2 SD	x	x	S	x
MPEG-2 HD to MPEG-2 SD	x	x	S	x
MPEG-2 HD to MPEG-2 HD	x	x	S	x
Multiplexing				
Reflex™ statistical multiplexing of transcoded services	x	x	S	x
Audio Decoding				
MPEG-1 Layer II	D	D	D	D
Dolby® Digital Decode/Down-mix	S	S	S	S
Dolby® Digital Compressed Passthrough	x	x	S	S
Dolby® Digital Plus Compressed Pass-through	x	x	S	S
AAC Decode	S	S	S	S
Dolby® E Pass-through	x	x	x	D
Linear PCM	x	x	x	D
Phase Aligned Audio	x	x	x	S
Audio Normalization	D	D	x	D
Radio Service Selection	D	D	S	S
2x Physical Stereo Pairs	D	D	D	H
4x Physical Stereo Pairs	x	x	x	H/S
Audio Embedded in SDI	D	D	D	D
Audio Transcoding				
Dolby Digital 5.1 to 2.0 (stereo)	x	x	S	x
AAC to MPEG-1 Layer II	x	x	S	x
Video Processing				
4:2:0 ARC	D	D	D	D
4:2:2 ARC	x	x	x	D
Grade 1 HD to SD Down-conversion	x	x	x	H
Grade 2 HD to SD Down-conversion	x	x	S	S
Grade 3 HD to SD Down-conversion	x	S	x	x
SD to HD Up-Conversion	x	x	x	S
Cross-Conversion	x	x	x	S
Frame Sync	x	x	x	S
Simulsync 3D mode	x	x	x	S
Service Cycling	D	D	x	D
Data Capability				
RS232 Low Speed Asynchronous Data	x	x	x	H
MPE High Speed IP Data	x	H/S	x	H/S

FEATURE	RX8305	RX8330	RX8252	RX8200
Transport Stream Output				
ASI Output	H	D	D	D
IP TS Output	x	H	H	H
ProMPEG FEC (SMPTE 2022M)	x	S	S	S
Video Outputs				
SD CVBS (PAL/NTSC)	D	D	D	D
Russian SECAM	x	H	x	x
HD YPrPb/RGB	x	x	x	H
SD-SDI	H	S	D	H
HD-SDI	x	x	x	H
3G HD-SDI	x	x	x	H/S
Audio Output				
Balanced Analog	D	D	D	H
Balanced Digital Audio	D	D	D	H
Control				
Front Panel Control	D	D	D	D
RS232 Remote Control	x	x	x	H
SNMP Traps and Alarms	D	D	D	D
SNMP Remote Control	D	D	D	D
Web Browser Remote Control	D	D	D	D
Ancillary				
SCTE 35 Controlled Contact Closures	x	D	D	D
Alarm Relay	D	D	D	D

x = Not available

D = Feature available by default

For full information please refer to individual product datasheets

S = Feature available by software option

H = Feature available via hardware option