



ERICSSON RECEIVERS GUIDE

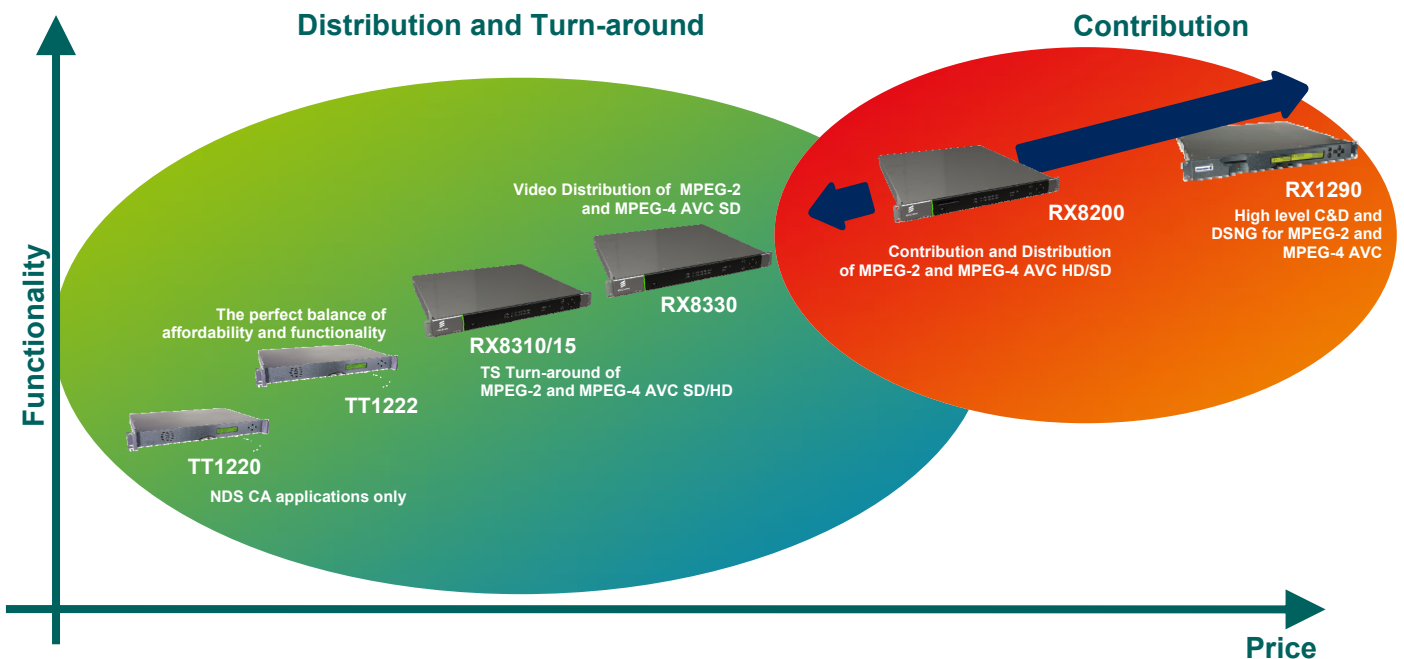
Ericsson's Receiver Range

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 to address 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.



TT1222 SD MPEG-2 Decoder

Equipped with QPSK or ASI interface, the Ericsson TT1222 delivers broadcast quality video, ideal for regional cable headends. The receiver is capable of descrambling one service and delivering high quality video as composite or SDI.

An ASI output is available, helping the migration from analog to digital networks. The TT1222 can be used as a satellite receiver or for the monitoring of content delivery. As the receiver supports a wide range of scrambling systems, it is well suited to operate in a large number of different satellite distribution systems. The TT1222 can be utilized in a Director by Ericsson network management control system that enables the operator to control demodulation and decoding parameters over-air.



RX8300 Series Distribution Receivers

The RX8300 range of IRDs are the perfect receive devices for distribution of video services throughout large networks. The units provide the most up-to-date feature-set, combining maximum transmission efficiency with easy remote management of the receiver population. The Ericsson RX8300 series is a range of professional receivers that are optimized for specific functional applications. The video decode and CA capability of each variant is tailored to the requirements of that receiver's particular target application.



RX8310/15 Multi-Service Descramblers

Designed for satellite based video distribution networks, the RX8310 and RX8315 offer an integrated satellite input with capability to demodulate highly efficient DVB-S2 transmissions. The RX8310 and RX8315 receivers are designed to decrypt a transport stream and output the decrypted channels over an industry standard ASI interface or optionally over an IP interface. The capability of the RX8310 and RX8315 can be further extended through the option for the receivers to decrypt multiple services within one unit. The receivers can be further licensed to decode one service and output analog SD video and audio allowing the RX8310 and RX8315 to simultaneously address both digital and legacy analog tiers. The RX8310 provides Director by Ericsson CA decryption while the RX8315 provides DVB Common Interface CA decryption.

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.



RX1290 Multi-Format Receiver

As the world's first professional, true multi-format MPEG-2/ MPEG-4 AVC decoder, the Ericsson RX1290 is a professional receiver with all major functionality available through one product. Designed for contribution, distribution and mobile markets where premium quality and performance is paramount, the RX1290 is capable of processing and decoding all major video formats.



Being capable of HD and SD decoding in both MPEG-2 and MPEG-4 AVC formats, the RX1290 offers the ultimate receive device to help the migration from today's standard definition broadcast environment to tomorrow's high definition capable network. By being built on a powerful platform, the RX1290 will be able to grow with the needs for new features through software license key upgrades, protecting the financial investment.

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.



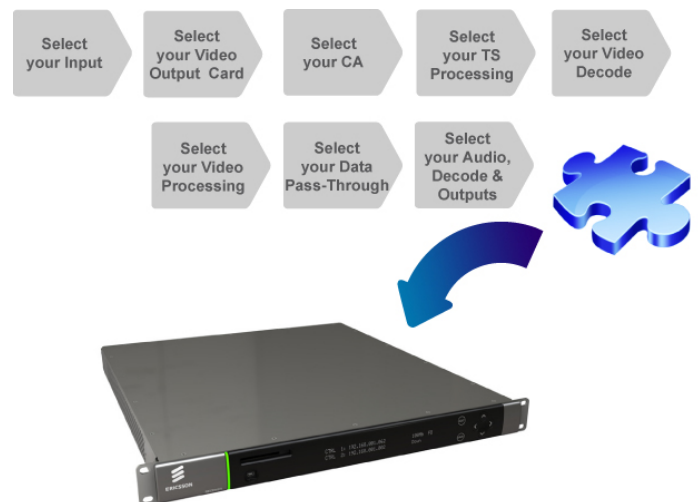
The Ericsson RX8200 Advanced Modular Receiver has been designed to specifically meet these requirements. By allowing each individual RX8200 to be configured and tailored to the user's precise needs, the perfect balance of functionality and cost can be achieved, resulting in a unit with all the required 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.



Receiver Portfolio Functionality

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

Feature	TT1222	RX8310	RX8315	RX8330	RX1290	RX8200
Transport stream Inputs						
ASI Input	✓	✓	✓	✓	✓	✓
DVB-S Only Satellite Input	✓	✗	✗	✗	✗	✗
DVB-S/S2 Satellite Input	✗	✓	✓	✓	✓	✓
IP TS Input	✗	✗	✗	✗	✓	✓
G.703 Input	✗	✗	✗	✗	✓	✓
Conditional Access						
Single Service Common Interface CA	✓	✗	✓	✓	✓	✓
Multi-Service Common Interface CA	✗	✗	✓	✓	✗	✓
Single Service Director CA	✓	✓	✓	✓	✓	✓
Multi-Service Director CA	✗	✓	✗	✓	✗	✓
Single Service BISS CA	✓	✗	✗	✓	✓	✓
Multi-Service BISS CA	✗	✗	✗	✓	✗	✓
Single Service B SkyB CA	✗	✗	✗	✗	✗	✓
RAS	✗	✗	✗	✗	✓	✓
Transport Stream Processing						
Single service filtering	✓	✓	✓	✓	✗	✓
Multi-Service Filtering (MPTS Out)	✗	✓	✓	✓	✗	✓
Multi-Service Filtering, Stream Splitting	✗	✓	✓	✓	✗	✓
Single Service PID Remapping	✗	✓	✓	✓	✗	✓
Video Decode						
MPEG-2 SD 4:2:0	✓	✓	✓	✓	✓	✓
MPEG-2 SD 4:2:2	✗	✗	✗	✗	✓	✓
MPEG-2 HD 4:2:0	✗	✓ (SD Out)	✓ (SD Out)	✓ (SD Out)	✓	✓
MPEG-2 HD 4:2:2	✗	✗	✗	✗	✓	✓
MPEG-4 SD 4:2:0	✗	✓	✓	✓	✓	✓
MPEG-4 SD 4:2:2	✗	✗	✗	✗	✗	✓
MPEG-4 HD 4:2:0	✗	✓ (SD Out)	✓ (SD Out)	✓ (SD Out)	✓	✓
MPEG-4 HD 4:2:2	✗	✗	✗	✗	✗	✓
MPEG-4 4:2:2 10-bit	✗	✗	✗	✗	✗	✓
MPEG-4 4:2:2 1080p 50/60 fps	✗	✗	✗	✗	✗	✓
Low Latency Decode	✗	✗	✗	✗	✓	✓

Receiver Portfolio Functionality

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Audio Decoding						
MPEG-1 Layer II	✓	✓	✓	✓	✓	✓
Dolby® Digital Decode/Down-mix	✓	✓	✓	✓	✓	✓
Dolby® Digital Compressed Pass-through	✗	✗	✗	✗	✓	✓
AAC Decode	✗	✓	✓	✓	✓	✓
Dolby® E Pass-through	✗	✗	✗	✗	✓	✓
Liner PCM	✗	✗	✗	✗	✓	✓
Phase Aligned Audio	✗	✗	✗	✗	✓	✗
Audio Normalization	✗	✓	✓	✓	✗	✓
2x Stereo Pairs	✓	✓	✓	✓	✓	✓
4x Stereo Pairs	✗	✗	✗	✗	✓	✓
Audio Embedded in SDI	✓	✗	✗	✓	✓	✓
Video Processing						
4:2:0 ARC	✓	✓	✓	✓	✓	✓
4:2:2 ARC	✗	✗	✗	✗	✗	✓
Grade 1 HD to SD Down-conversion	✗	✗	✗	✗	✗	✓
Grade 2 HD to SD Down-conversion	✗	✗	✗	✗	✓	✓
Grade 3 HD to SD Down-conversion	✗	✓	✓	✓	✗	✗
SD to HD Up-Conversion	✗	✗	✗	✗	✓	✓
Cross-Conversion	✗	✗	✗	✗	✗	✓
Frame Sync	✗	✗	✗	✗	✓	✓
Service Cycling	✓	✓	✓	✓	✗	✓
Data Capability						
RS232 Low Speed Asynchronous Data	✗	✗	✗	✗	✓	✓
Ericsson High Speed IP Data-Piping	✗	✗	✗	✗	✓	✗
MPE High Speed IP Data	✓	✓	✓	✓	✗	✓
Transport Stream Output						
ASI Output	✓	✓	✓	✓	✓	✓
IP TS Output	✓	✓	✓	✓	✗	✓



Receiver Portfolio Functionality

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Video Outputs						
SD CVBS	✓	✓	✓	✓	✓	✓
HD YPrPb/RGB	✗	✗	✗	✗	✓	✓
SD-SDI	✓	✗	✗	✓	✓	✓
HD-SDI	✗	✗	✗	✗	✓	✓
3G HD-SDI	✗	✗	✗	✗	✗	✓
Audio Output						
Balanced Analog	✓	✓	✓	✓	✓	✓
Balanced Digital Audio	✗	✓	✓	✓	✓	✓
Unbalanced Digital Audio	✗	✗	✗	✗	✓	✗
SPDIF Digital Audio	✓	✗	✗	✗	✗	✗
Control						
Front Panel Control	✓	✓	✓	✓	✓	✓
RS232 Remote Control	✓	✗	✗	✗	✓	✓
SNMP Traps and Alarms	✓	✓	✓	✓	✓	✓
SNMP Remote Control	✗	✓	✓	✓	✓	✓
Web Browser Remote Control	✓	✓	✓	✓	✓	✓
Ancillary						
SCTE 35 Controlled Contact Closures	✗	✓	✓	✓	✗	✓
Alarm Relay	✓	✓	✓	✓	✓	✓

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