

# ELIUM

## IRD 302x Radio

**DAB+** **FM** **InternetRadio** **IP RADIO**



The **IRD 302x** is a professional bidirectional audio decoder with excellent **DAB / DAB + and FM radio** reception features, with Internet radio support and app support.

The **IRD 302x** is equipped with **individual configuration with up to two receivers**.

In addition to the audio connections, the device has **Ethernet interfaces**.

The programs received via the tuners can use the Ethernet interfaces to **stream to the IP network** as **SPTS** (Single Program Transport Stream) or **MPTS** (Multi Program Transport Stream). The administration can be done via **web server**, which provide modul by modul access to the device.

The integrated **Ethernet and RS-232 control option** give the option to control the **IRD 302x bidirectional** and enables an optimal integration into existing control systems.

The Ethernet and RS-232 interface grand the user to consult program name (program logo), program information, EPG information ect..

Through the **open GUI** (Graphical User Interface) with **custom HTML 5** is it possible to design / edit **customized user interfaces** (wallpapers, logos, menu layout and design, content, etc.).

The devices are designed by high-quality components for **continuous operation** and are **developed and produced in Germany**.



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### Features:

- DAB / DAB+ and FM Singletuner
- HDMI - 1080i/p - 720p - 576p  
Automatic monitor adjustment of the resolution or resolution adjustable
- Analog Output unbalanced Stereo - Cinch
- Audio Streaming via Ethernet Port
- Bidirectional control via RS-232 / Ethernet
- Network connection via Ethernet-Port
- Grafical Display 192 x 32 pixel shows all technical information like, program name, Dynamic label, antenna signal: RSSI, SNR...  
All settings can be done via the Frontpanel
- HTML5 based OSD to support changes of background, program logo/-namen, etc.
- Integrated Webserver for administration and control
- Servicebutton to turn the display and front panel off (commissioning of more then one device)
- Termo controlled fan (Power supply and System)

### Optionale Features:

- Second independently Radio-Modul
- Analog Output balanced symmetrisch Stereo - XLR 3pol.
- Analog Output balanced Stereo - 5 pol. Phoenix
- Analog Output unbalanced Stereo - 3,5 Klink L/R
- InternetRadio
- Redundant power supply with automatic changeover
- Fernbedienung
  
- App-Support for control systems like e.g.  Spotify  InternetRadio  und viele mehr...

## Technical Data

<b>Input options DAB / DAB+ and FM</b>	<ul style="list-style-type: none"> <li>• <b>DAB / DAB+:</b> Frequency range: 174,160 - 239,968 Mhz</li> <li>• <b>FM:</b> Frequency range: 87,5 - 107,9 Mhz <span style="float: right;">F-Connector / 75 Ω Impedanz</span></li> <li>• <i>InternetRadio optional</i></li> <li>• <i>App-Support optional</i></li> </ul>
<b>Control</b>	<ul style="list-style-type: none"> <li>• Frontpanel (to control the hole device)</li> <li>• <i>IR remote control optional</i></li> <li>• RS-232 control- 9pol. D-Sub connector (Front- &amp; Back)</li> <li>• Ethernet 100 Mbit - IEEE 802.3</li> <li>• WebServer</li> </ul>
<b>Information</b>	<ul style="list-style-type: none"> <li>• Frontpanel grafical Display 192 x 32 pixel</li> <li>• EPG including Event Information (depending on Provider)</li> <li>• DLS Information (depending on Provider)</li> <li>• Device information: OSD incl. CA Information, Audio and Video Information, Receiver Status, Service Information...</li> </ul>
<b>Output options</b>	<ul style="list-style-type: none"> <li>• <b>Video</b> HDMI - 480i/p, 576i/p, 720i/p, 1080i/p Image format: 4:3, 16:9</li> <li>• <b>Audio</b> Audio Analog Stereo unbalanced - 2 x RCA 75 Ω <i>Analog Ausgang balanced Stereo - 2 x XLR 3pol. optional</i> <i>Analog Ausgang balanced Stereo - 2 x 5pol. Phoenix optional</i> <i>Analog Ausgang unbalanced Stereo - 2 x 3,5mm jack plug L/R optional</i></li> <li>Decoding: MPEG-1/-2 Layer I und II, WMA bit-Streams, RM, FLAC, Mpeg-1 layer 3 (MP3) MPEG4 HE AAC v2, language setting option (depending on Provider)</li> <li>• <b>Streaming</b> Ethernet 100 Mbit - IEEE 802.31 for SPTS (Single Program Transport Stream) or MPTS (Multi Program Transport Stream)</li> <li>• <b>Power supply</b> Power supply 110 - 240 V AC <i>Redundant power supply optional</i></li> <li>• <b>Technical Connection/Function</b> RS-232 for Support on front panel Service button (Front and Back)</li> </ul>
<b>Physical</b>	<ul style="list-style-type: none"> <li>• Dimensions: 19" 1HE (485 /440 x 275 x 44 mm)</li> <li>• Weight: 3,6 Kg</li> <li>• Voltage: 110 - 240 V AC</li> <li>• Power: 25 W max</li> <li>• EMC: EN 50083-2</li> <li>• Secure: EN 60950-1</li> <li>• Environment: ETSI EN 300019-1-3 Class 3.1</li> </ul> <div style="text-align: right;">ver.01</div>