

# ELIUM

## IRD 3080 - SDI

DVB S/S2 SATELLITE

DVB C/C2 CABLE

DVB T/T2 TERRESTRIAL



**Integrated Receiver Decoder** with highest demands on quality and excellent HDTV and radio reception capabilities. The **IRD 3080** is equipped with a receiver for DVB-S/S2, DVB-C/C2/T/T2 and / or A-TV (analog TV) and **two integrated common interface slots** for decoding different Conditional Access Modules to decrypting Pay-TV channels.

The **SDI signal** can be embedded **two audio streams** (Audio L / R, AC3 Dolby digital) simultaneously on an integrated matrix.

Also it is optionally possible to **dine an ASI signal** in to the device or to **extract an ASI signal** from the **IRD 3080**.

The **integrated Ethernet and RS-232 control option** give the option to control the **IRD 3080 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..

The existing video **connectors** with **BNC 75 Ω** execution a durable, safe and secure connection option.

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

### Features:

- Multiformat MPEG-2/-4 /H.264/VC-1 Video Decoder
- SD/HD - MP@HL, MP@ML, MP@LL, SP@ML, AVC HP@L4.1, VC-1 AP@L3 und MP@HL
- DVB-S/S2, or DVB-C/C2/T/T2 / **ATV (AnalogTV) optional** / **Dual-Tuner combined optional**
- Resolution- 1080i/p 720i/p / SD-576i (SD upscaling to 1080i/p) at all digital videoconnections
- Videoformat 4:3 / 16:9 /
- 2 Common Interface Slots for Conditional Access Module like Alphacrypt (SKY,ORF), Conax, Indeto Nagravision, Viaccess ...
- Graphical Display 192 x 32 Points shows all the important technical information, such as name of transmitter and broadcast, image resolution, format, AudioPID, antenna signal: quality, strength ect. All settings are adjustable via display and keyboard / **remote control optional**
- Bidirectional control via RS-232 / Ethernet
- TeleText, DVB Subtitling, EBU Teletext Subtitling
- Thermo-controlled fan (power supplies and system)
- EPG - Electronic Program Guide - with event information for 14 days
- SNMP control / **Server SNMP PC-Software optional**
- Service button in front / back for commissioning of several devices
- Delay for AUDIO / VIDEO adjustabler
- Audio level can be set for each program
- AES - BNC 75 Ω unbalanced (standard) / **XLR 3pol. balanced optional**
- SDI embedded 2x Audio- BNC 75 Ω
- **ASI Input / Output BNC 75 Ω optional**
- Matrix for audio tracks to embed
- **Sync Input - BNC 75 Ω Tri-Sync or Black Burst optional**
- **GPIO Port Alarm and Monitoring optional**
- **Redundant power supply optional**
- **eSATA- connection optional**

■ ■ ■ Made in Germany

## Technical Data

<b>Input options SAT or Cab/TER</b>	<ul style="list-style-type: none"> <li>• <b>DVB-S/S2:</b> EN 300 421/ EN 302 307 Frequency range: 950 - 2150 Mhz F-Connector / 75 Ω impedanz Symbol Rate area: 1 - 45 Msyms DiSeqC: 1.0, 1.1, 2.0.</li> <li>• <b>DVB-C:</b> EN 300 429 /<b>C2:</b> EN 302 769 /<b>T:</b> EN 300 744 /<b>T2:</b> EN 302 755 QAM: 16, 32, 64,128, 256 QPSK, 16 QAM, 64 QAM, 256 QAM, <b>F-Connector</b> / 75 Ω impedanz Frequency range: 48 - 862 Mhz Symbol Rate area: 4 - 7 Ms/s</li> </ul>
<b>DUAL combined optional</b>	<ul style="list-style-type: none"> <li>• <b>Analog TV optional</b></li> <li>• <b>ASI input / output 1x BNC 75 Ω optional</b></li> </ul>
<b>Conditional Access</b>	<ul style="list-style-type: none"> <li>• 2x DVB CI Slots: EN 50221 for CAMs Alphacrypt (SKY, ORF), Aston, Conax, Cryptoworks, Irdeto, Nagravision, NDS, Viaccess...</li> </ul>
<b>Control</b>	<ul style="list-style-type: none"> <li>• Frontpanel</li> <li>• <b>IR remote control / wired optional</b></li> <li>• RS-232 control - 9pol. D-Sub socket (Front- &amp; Rückseite)</li> <li>• Ethernet (ETH 1) 100Mbit - IEEE 802.3 <b>Ethernet (ETH 2) 100Mbit streaming optional</b></li> <li>• WebServer</li> <li>• SNMP</li> </ul>
<b>Information</b>	<ul style="list-style-type: none"> <li>• Frontpanel graphical Display 192 x 32 Points</li> <li>• EPG with Event Information (Provider-dependent)</li> <li>• DVB Subtitling support (Provider-dependent)</li> <li>• Device Information OSD inklusive CA informationen, audio and video informations, receiver status, service informations..</li> </ul>
<b>IRD Output- option</b>	<ul style="list-style-type: none"> <li>• <b>Video</b> SDI - 1x BNC 75 Ω / <b>2x SDI optional</b> Audio L/R and AC3 embedder <b>HDMI - 1080i/p - 720p - 576i - (HDCP switched off)</b> <b>Audio L/R or AC3 embedder optional</b></li> <li>Analog output - CVBS 1x BNC 75 Ω Format: SDTV, HDTV, PAL, SECAM, NTSC, Decoding: MPEG-2/-4, H.264, und VC-1 HD Video Decoder MPEG-2 MP&amp;HL,MP&amp;ML,MP&amp;LL,SP&amp;ML,AVC HP&amp;L4.1,VC-1 AP&amp;L3,MP&amp;HL</li> <li>Image format: 4:3, 16:9, <b>21:9 optional</b> Multifeed Option (SKY, Conferencing, camera perspectives)</li> <li>• <b>Audio</b> Analog output balanced- Stereo - 2 x XLR 3pol. Digital output AES - 1x BNC 75 Ω unbalanced <b>AES - 1x XLR balanced optional</b> Decoding: MPEG1, MPEG2 Layer I und II, WMA bit-Streams, Mpeg-1 layer 3 (MP3) Language selection option (Provider-dependent) <b>AC3-Decoder (Dolby-Decoder) optional</b></li> <li>• <b>Technical Sync Input - BNC 75 Ω Tri-Sync or Black Burst optional</b></li> <li>• <b>Power supply</b> Power supply 110 - 240 V AC <b>Redundant power supply optional</b></li> <li>• <b>Technical connection</b> USB 2.0 for update in the front area RS-232 for support in the front area</li> </ul>
<b>Physikal</b>	<ul style="list-style-type: none"> <li>• Dimensions: 19" 1U (485 /440 x 275 x 44 mm)</li> <li>• Weight: 3,6 Kg</li> <li>• Voltage: 110 - 240 V AC</li> <li>• Absorption 25 W max</li> <li>• EMC: EN 50083-2</li> <li>• Security: EN 60950-1</li> <li>• Environment: ETSI EN 300019-1-3 Class 3.1</li> </ul>

ver.2.3