



## Professional Digital IRD Integrated Receiver Decoder with ASI i/o

### General

Broadcast Grade 4:2:0 MP@ML Professional Integrated digital Receiver decoder.

The DVBR-7000 is the perfect component ideal for any digital Head-end, digital-turnaround, monitoring and any other professional application where high quality-grade features and excellent reception capabilities are fundamental to provide a stable and reliable service.

The DVBR-7000 is available with IF or RF input for DVB-S (satellite LNB), DVB-C ( digital cable ), DVB-T ( digital terrestrial ), all with active IF-RF loop-through for multiple units IF-RF cascading operations.

The unit has also one ASI bnc input and two ASI bnc outputs so multiple units can be cascaded via ASI or one unit can be used as ASI to VIDEO decoder.

The DVBR-7000 has two built-in C.I. common interfaces slots to fit up to two different Conditional Access CAMMS with the ability to descramble multiple programs at the same time, offering both MPTS descrambled ASI bnc out for digital turn-around application ( two bnc ) and audio/video decoding of one selected program.

The DVBR-7000 comes with the most competitive price on the market and has been especially designed for multi-channel applications offering completeness of features and unmatched reliability respect single-box multi-tuner systems where in case of failure all the tuners goes down.

### Applications

- Fixed and Mobile Contribution / Distribution
- Cable TV head-ends
- Digital Turnaround (DTA)
- Video Distribution over DVB-T / S / C and Telco infrastructure
- DVB-CI Decryption for Transport Stream re-multiplexing
- ASI DVB interface for: Transport stream monitoring, re-multiplexing and Decoder cascading

### Standard Features

- Available with DVB-S or DVB-T or DVB-C Integrated receiver ( specify at order )
- DVB-ASI Input, 188-byte, 204-byte, Burst, Byte
- Dual ASI DVB output ( with/without descrambling )
- DVB-CI Conditional Access Descrambling
- Built-In 2x DVB-CI CAM Common Interface ports for Multi vendor C.A. descrambling
- 4:2:0 MP@ML up to 15 megabit/s Broadcast ASI Decoder
- Composite video output
- TXT VBI injection ( WSS, VBI, WST, etc.. )
- Support for PAL / NTSC / SECAM and optionally Russian SECAM
- XLR Balanced stereo audio out ( Left / Right )
- Dolby AC-3 pass-through
- MPEG Layer 1 & 2 Audio Decoder
- Serial RS232 control port
- 90 to 240 VAC, 50/60Hz
- Low power consumption ( 25W nominal )

### Main Options

- SDI out with Additional Audio out
- other options see the ordering information page

### Your Benefits

- **Best Price / All Features**  
Save your money per channel. The DVBR 7000 has all the features & quality, for the lowest price on the market !
- **Safe Operations**  
Thanks to its price, you can use one 7000 receiver per channel instead of multi-module receivers, where in case of failure all the channels are off.
- **Compact-stand alone**  
Just 1U rack, does not require a computer to configure

### Highlights

- 4:2:0 profiles decoding
- Two DVB C.I. slots, multi-channel MPTS simultaneous decryption
- **Variety of inputs options:**  
ASI, DVB-T, DVB-S, DVB-C, G.703 E1, E2, E3, DS3, OC3, IP
- **Variety of outputs options:**  
ASI, SDI, Composite
- Teletext and VBI decoding
- Decoder cascading in/out
- Aux Data Channels out
- Broadcast Picture Quality
- Perfect for all DVB apps.
- Best Price on the Market

## Connector Panel



PLEASE NOTE: installed connectors depends upon the installed features and the purchased encoder version

## Technical Details

<b>Decoder Inputs</b>	DVB-ASI BNC with Loop-through	
<b>Receiver Input Options</b>	<p>DVB Terrestrial - COFDM (option )</p> <ul style="list-style-type: none"> <li>• QPSK, 16-QAM, 64-QAM</li> <li>• Frequency range: 51 to 858 MHz</li> <li>• Tuner Bandwidth: 6 MHz or 7 MHz or 8 MHz (optional for different market)</li> <li>• Guard Interval: 1/4, 1/8, 1/16, 1/32, off</li> <li>• FEC Code Rate: 1/2, 2/3, 3/4, 5/6 and 7/8</li> </ul> <p>DVB Satellite - QPSK (option )</p> <ul style="list-style-type: none"> <li>• Frequency range: 950 - 2150 MHz</li> <li>• Symbol rate range: 1 - 45 Msym/s</li> <li>• L-Band RF input with LNB control and</li> </ul> <p>DVB Cable - QAM (option )</p> <ul style="list-style-type: none"> <li>• QAM demodulation: 16/32/64/128/256</li> <li>• VHF/UHF input: 50.5 – 858 MHz</li> <li>• Symbol Rate Range: 1- 7 Msym/s</li> </ul>	<p><b>Telecom HDB3 (option )</b></p> <ul style="list-style-type: none"> <li>• Interface: G703 HDB3 BNC</li> <li>• Unframed PDH Data rates: E1, E2, E3</li> </ul> <p>Telecom B3ZS - ATM (option )</p> <ul style="list-style-type: none"> <li>• Interface: ATM AAL-1 B3ZS BNC</li> <li>• Unframed PDH Data rates: DS3, E3 G703</li> </ul> <p>DVB-SDH SONET (option )</p> <ul style="list-style-type: none"> <li>• Interface: STM-1/OC-3, ATM AAL-1</li> <li>• Optical interface types: SM or MM, 1300 nm</li> </ul> <p>IP streaming ( option )</p> <ul style="list-style-type: none"> <li>• RJ45 Copper Cable port</li> </ul>
<b>Output</b>	<p>Video</p> <ul style="list-style-type: none"> <li>• Analog video Interfaces : 10 bit composite</li> <li>• Digital video Interfaces : 2x SDI embedded ( option )</li> <li>• Video formats: PAL-B/G/I/M/N/D, NTSC, SECAM, L/B/G/K1</li> <li>• Decoding: <u>4:2:0MP@ML</u> ( 0.25 - 15 Mbps)</li> <li>• Video resolution interpolation: Pan-Scan, Letter box or Pass-through</li> <li>• Aspect ratio: 4:3/16:9 and 14:9</li> <li>• Graphic processing: OSD, DVB Subtitling, EBU Teletext</li> <li>• OSD only on monitoring output</li> <li>• Sync Lock Input and Loop-through output(optional)</li> </ul> <p>VBI Re-Insertion</p> <ul style="list-style-type: none"> <li>• In Composite video and embedded in SDI</li> <li>• WST Teletext and inverted Teletext</li> <li>• WSS, VPS, VITC, SMC, CC, AMOL</li> <li>• Enhanced VITS with built-in generator</li> </ul>	<p>Audio</p> <ul style="list-style-type: none"> <li>• Analog audio: 1 stereo Balanced and unbalanced</li> <li>• Additional Audio: up to 3 pairs ( 8 total mono ) ( option )</li> <li>• Digital audio AES/EBU out ( option )</li> <li>• Mode: stereo, joint stereo, dual channel, single channel</li> <li>• Max out level: +24 dBu analog, 0 dBFs AES</li> <li>• Gain Control: -58 to +6 dB / mute</li> <li>• AC-3 Pass-through ( option )</li> </ul> <p>Data Outputs ( option )</p> <ul style="list-style-type: none"> <li>• Low Speed Data: RS-232 (115.2 Kbaud) / RS-422(2Mbps)</li> <li>• High Speed Data: RS-422 up to 20 Mbps</li> </ul> <p>Transport Stream Outputs:</p> <ul style="list-style-type: none"> <li>- 2 ASI BNC outputs</li> <li>- Input stream with selected program decrypted</li> <li>- Input stream "as it is"</li> </ul>
<b>Conditional Access</b>	<p>DVB-Descrambling ( option )</p> <ul style="list-style-type: none"> <li>• BISS Mode-1</li> <li>• BISS-E</li> </ul>	<p>DVB-CI</p> <ul style="list-style-type: none"> <li>• Interface: 2 CI slots – EN-50221</li> <li>• CA method: Multicrypt, Simulcrypt</li> <li>• CAS: Irdeto®, Viaccess®, Cryptoworks®, Conax®, Aston®, Nagravision®, On Digital®, NDS®, Mediaguard®, SECA®, others..</li> </ul>
<b>Control and Monitoring</b>	<p>Local</p> <ul style="list-style-type: none"> <li>• Extensive Front Panel Control</li> <li>• Infrared remote control</li> <li>• Up to 140 stored setups</li> <li>• Advanced satellite scanning</li> <li>• Can operate in Service and in PID modes</li> <li>• GPI dry contacts for various status and faults</li> </ul> <p>Over The Air (optional)</p> <ul style="list-style-type: none"> <li>• Control and Software download</li> </ul>	<p>Remote</p> <ul style="list-style-type: none"> <li>• PC via RS-232 or RS-485</li> <li>• SNMP proxy PC software (optional)</li> </ul> <p>Enhanced DVB Monitoring</p> <ul style="list-style-type: none"> <li>• Front panel display: signal quality, Eb/N0, BER, ASI format, network and service information, CA information, CI slots, video and audio decoded information</li> <li>• OSD: PSI tables, receiver and decoder status information</li> </ul>
<b>Physical and Power</b>	<p>1RU (19" rack): 1.75"x19"x12.8" 4.4x48.2x32.5 cm</p> <p>Weight: 2.5 Kg / 5.5 lbs</p>	<p>Voltage: 100-240 V AC, 50/60Hz 48VDC (optional)</p> <p>Power consumption: 50Watt max</p>

## Ordering Information

- All Versions performs**
- 4:2:0 decoding up to 15 Mbps
  - 1 Composite out ( selectable standard performing as transcoder )
  - 2 Analog Balanced Audio out ( 2 stereo )
  - ASI in / ASI out decrypted or original for multiple units cascading
  - OSD, Subtitling & Teletext decoding, channel presets

## Versions

<b>DVBR-7000-S</b>	DVB-S Digital Satellite IRD receiver 4:2:0 Decoder and ASI i/o
<b>DVBR-7000-T</b>	DVB-T Digital Terrestrial IRD receiver 4:2:0 Decoder and ASI i/o
<b>DVBR-7000-Q70</b>	70Mhz IF input QPSK Digital IRD receiver 4:2:0 Decoder and ASI i/o
<b>DVBR-7000-C</b>	DVB-C Digital Cable IRD receiver 4:2:0 Decoder and ASI i/o
DVBR-7000-IP	IP streaming 4:2:0 Decoder and ASI i/o

## Options

<b>SDI</b>	Adds SDI embedded output
-E3DS3	Adds E3 / DS3 unframed input interface ( streamtel )
-E3DS3 frm	Adds E3 / DS3 universal interface ( receive from most of third party systems )
- STM1	Adds STM1 optical input interface
- 2A	Adds second audio group ( stereo ) decoding
- 3A	Adds third audio group ( stereo ) decoding
- 4A	Adds fourth audio group ( stereo ) Decoding
- DATA	Adds serial user data out
- BISS	Adds BISS 1 & E descrambling
- 48V	Adds 48 Volts DC power input