

Condor

DRD 694/695 DVB-S2 TWIN RECEIVER

DRD 694/695 receives two digital MPEG-2 or MPEG-4 encoded TV-signals with DVB-S or DVB-S2 modulation from L-Band and generates two independent MPEG transport streams. By this it is a suitable solution for HDTV signals that are modulated as DVB-S2 signal. The MPEG transport streams are available after demodulation and error correction at the two ASI and the GigEthernet outputs. The switching between DVB-S and DVB-S2 mode will be done automatically. Two ASI test ports allow the control of the transport stream during operation. Scrambled signals are descrambled via the DVB-Common-Interface

(DVB-CI) with adequate Conditional Access Modules (CAM). Every input signal is fed over two DVB-CI interfaces. So the descrambling of more services within the transport stream with up to two CAM modules is possible. The implemented Decryption-Monitoring-System (DMS) allows an efficient use of the CAMs for decryption of several services by the possibility to select only necessary PIDs of the transport stream for decryption. For further processing these descrambled transport streams are fed to ASI and GigEthernet outputs. The **DRD 695** has additionally an integrated BISS descrambler for both channels.

The local control is done with a convenient thumb wheel and an LC-Display. An implemented web-server allows the configuration with a standard webbrowser over an LAN/WAN network. For the monitoring over a Network Management System (NMS) an SNMP agent is implemented. **DRD 694** is equipped with an redundant power supply providing a solution for high professional reliability.



FEATURES

- **Inputs**
 - HDTV-TWIN-RECEIVER:
 - 2 x DVB-S/DVB-S2 Inputs
 - Frequency Range: 950 ... 2,150 MHz
 - Level: -65 ... -25 dBm
- **Outputs**
 - 2 x ASI-Outputs
 - GigEthernet: Content of 2 transport streams
 - ASI-Test ports for each Input Signal
- **Conditional Access**
 - 2 x DVB/COMMON INTERFACES for each Input Signal
 - BISS Descrambler (DRD 695 only)
 - Decryption-Monitoring-System
- **Control**
 - 10/100/1000 Mbit ETHERNET INTERFACE
 - Web-Server
 - SNMP-Agent for NMS
 - Thumb Wheel and LC-Display
- **Reliability**
 - Redundant Power Supply

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DVB-S2 Twin Receiver

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TECHNICAL DATA

RF-Input	
Input Impedance	75 Ohm (Option: 50 Ohm)
Input Frequency range	950 ... 2,150 MHz
Input Signal level	-65 ... -25 dBm
Bandwidth	36 MHz
DVB-S	(according EN 300 421)
Modulation	QPSK
Roll-Off	35%
Inner Coding (FEC)	1/2; 2/3; 3/4; 5/6; 7/8 Viterbi; K=7
Interleaving	Convolutional; I=12
Outer Coding	Read Solomon (RS) (204, 188, T=8)
Symbol rate	2 ... 45 MSps
DVB-S2	(according EN 300 307)
Modulation	QPSK, 8PSK
Roll-Off	20, 30, 35%
Outer Coding	BCH
Inner Coding	LDPC
FEC Code-Rates (depending on Modulation scheme)	1/4; 1/3; 2/5; 1/2; 3/5; 2/3; 3/4; 4/5; 5/6; 8/9; 9/10
FEC-Blocklength	64800 Bit
Symbol rate	2 ... 30 MSps
Output (ASI, GigE)	2 x ASI (according to EN 50083-9) (for each Input Signal) Impedance: Connector 75 Ohm Return loss: >18 dB GigEthernet with the load of two transport streams
Test Connector (Front ASI A, ASI B)	2 x ASI (according to EN 50083-9) Impedance: 75 Ohm (BNC-connector), Return loss: >18 dB
DVB-Common-Interface (DVB-CI)	VIACCESS, CRYPTOWORKS, CONAX or IRDETO. Other CA systems on request (2 DVB-CI Slots for each channel)
BISS Descrambling Monitoring Interfaces	DRD 695 10/1000 Mbit Ethernet, USB, Web server, SNMP-Agent
Power consumption	<50 W
Mains voltage	100 _{AC} ... 240 V _{AC} Redundant Power Supply
EMC	EN 50083-2
Safety	EN 60950-1
Environmental	ETSI EN 300019-1-3 Class 3.1



Rear view DRD 694/695

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DVB-S2 Twin Receiver

Associated BLANKOM Products

- **DRP-series** Professional Receiver/Decoder
- **DRD 696** DVB Multiformat Receiver
- **DRP 393** MPEG-4 ASI/IP Decoder Platform

...setting signals