

Falcon

New - DRD 700 QUAD MULTISTREAM PROCESSOR

DRD 700 is a DVB-Quad Receiver and can be equipped with different Twin-DVB-Frontend modules (DVB-S/S2, DVB-T/C or DVB-T/T2). The 4 independent MPEG-2/MPEG-4 SD/HD-input signals are demodulated, descrambled and are available at the 4x2 ASI outputs. Additionally the DRD 700 has 2 ASI-Inputs and 2 redundant IP-GbE-SFP interfaces as an option. For Multi-Service Decryption up to 4 CAM modules can be inserted into the DVB-CI slots at the front panel.

With the DVB-S/DVB-S2 frontend the

DRD 700 is able to receive multiplexed transport streams according to EN 302307 Annex H.2. After demultiplexing the separate transport streams are available at the 4x2 ASI outputs.

The IP-GbE-SFP interface allows the IP-output-streaming of up to 4 MPTS streams and up to 60 SPTS streams. IP-Input streaming and redundancy of the IP-GbE-SFP interfaces are options. The processing option includes service and PID-filtering and the multiplexing of up to 4 new DVB compliant transport streams out of the input signals.

The implemented web server allows the configuration of the DRD 700 with a standard web browser. Basic configuration can also be done locally with the LCD display and a navigation wheel. A SNMP agent with the corresponding MIB is built in for the integration in a network management system. The control port for web configuration and SNMP has an own IP address and is physically separated from the streaming ports.



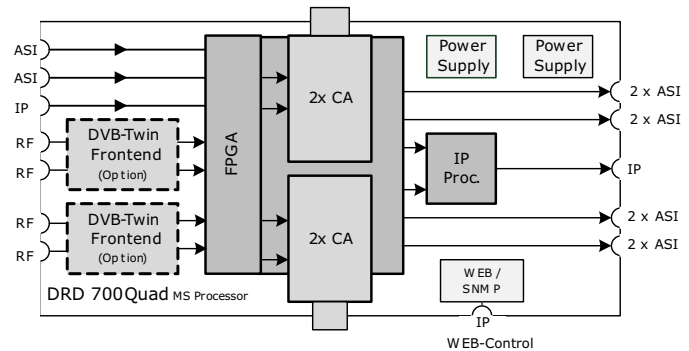
FEATURES

- 2x DVB-Twin-Frontends DVB-S/S2, DVB-T/C or DVB-T/T2
- 2x ASI Inputs
- 2x IP-GbE-SFP-Interfaces for IP-Input or IP-Output-Streaming (Option Redundancy)
- IP-Input Streaming (Option)
- Service filtering and DVB-compliant Multiplexing (Processing Option)
- Multistream Demultiplexing
- 4 x DVB-CI slots for CAM modules for Multi-Service-Decryption
- IP-Output-Streaming MPTS/SPTS
- 4 x 2 ASI Outputs
- BISS decryption (Option)
- NDS decryption (Option)
- Web/SNMP server (IP-Control port)
- Redundant power supply

REAR VIEW



BLOCK DIAGRAM



DRD 700
Quad Multistream Processor

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ASI	
Input:	2x ASI (in conformance with EN 50083-9), 75 Ohm, BNC
Output	4x 2 ASI (in conformance with EN 50083-9), 75 Ohm, BNC
Reflection / return loss	> 18 dB
Format	188 Byte/ 204 Byte
IP Streaming Interface	
Connector	2x IP-GbE-SFP-Interfaces for IP-Input or IP-Output-Streaming
Dataformat	SFP: electrical RJ45 or optical LC UDP, Uni-und Multicast (RTP, FEC PromPEG CoP#3 optional)
IP-Input-Streaming	Max. 4 MPTS/SPTS IP-streaming inputs (Option)
IP-Output-Streaming	Max. 4 MPTS and 60 SPTS IP streaming output channels
IP-Redundancy	Switching criteria: link-loss, sync-loss for input streaming (Option)
Processing	
Filtering	PID- and Service filtering (Option)
Multiplexing transport streams	DVB-compliant Multiplexing of up to 4 transport streams (Option)
Input Data/rates	
	max. 200 Mbps total; max 100 Mbps per input port (Note: encrypted signals are limited to 72 Mbps by the CAM)

DVB-S2 Feature	
Multistream Demultiplexing	DVB-S2 demultiplexing according to EN 302307 Annex H.2 (only with DVB-S2 frontend)
Multi-Service-Decryption	
Hardware CA systems	4x DVB-CI slot (CAM) (CI+ optional) DVB-CI compliant CA systems with CAM: Viaccess, Conax, Irdeto, Seca, Mediaguard, Nagravision, Sky, NDS (on request)
BISS	
Number of descrambled services	Mode 0, Mode 1, BISS-E (option) dependent of service, max. 8 PIDs
Control-Port	
Ethernet Format	IP control port, RJ45, LAN,10/100M TCP/IP, SNMP agent, TFTP, Web server, Software Download
Alarm	Potential-free relay contact
General	
Power consumption	2 x 100V _{AC} to 240 V _{AC}
Redundant Power Supply	100 V _{AC} to 240 V _{AC} 50/60 Hz
EMC	EN 50083-2, FCC Part 15, class A
Safety	EN 60950-1

TECHNICAL DATA DVB-S/S2 Frontends (Options)

	OPD135-09
	DVB-S/S2
	EN 300 421/ EN 302 307
Number of inputs (per frontend)	2
Modulation	QPSK, 8PSK; 16APSK, 32APSK (1 input only)
Input frequency	950 MHz to 2150 MHz
Lock-in range	± 5 MHz
Retaining range	±12 MHz
Input impedance, connector	75 Ω, F
LNB supply:	
Voltage (switchable)	13V / 18V
Current (short-circuit proof)	500 mA
Input level	44 to 84 dB V
Bandwidth (MHz)	36
Symbol rate	1 to 50 MS/s (QPSK, 8PSK) 1 to 40 MS/s (16APSK) 1 to 30 MS/s (32APSK)
Lock in range	± 100 ksps
Roll off	20, 25, 35 %
FEC-Code rates (depending upon the type of modulation)	1/4; 1/3; 2/5; 1/2; 3/5; 2/3; 3/4; 4/5; 5/6; 8/9; 9/10
FEC-Frame	Normal (64800bits), Short

TECHNICAL DATA DVB-T/C & DVB-T/T2 Frontends (Options)

	OPD135-03		OPD135-04
	DVB-T	DVB-C	DVB-T2
	EN 300 744	EN 300 429	EN 300 755
Number of inputs (per frontend)	2		
Modulation	COFDM, QPSK, 16-QAM, 64-QAM	16-, 32-, 64-, 128-, 256-QAM	COFDM, QPSK, 16-QAM, 64-QAM, 256 QAM
Input frequency	47 to 862 MHz		
Input impedance, connector	75 Ω, F		
Input level	-31 to +39 dBμV -80 dBm to -10 dBm	-11 to +39 dBμV -60 dBm to -10 dBm	-31 to +39 dBμV -80 dBm to -10 dBm
Bandwidth (MHz)	6/ 7/ 8		
Symbol rate	All for 7 MHz and 8 MHz bandwidth	2 Msps ... 7 Msps	All for 7 MHz and 8 MHz bandwidth
FFT	2k, 8k		1k, 2k, 4k, 8k 16k, 32k
FEC-Code rates	1/2, 2/3, 3/4, 5/6, 7/8 1/4, 1/8, 1/16, 1/32		1/2, 3/5, 2/3, 3/4, 4/5, 5/6 1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256

Software Options

IP-Input Streaming (APA135-51 - Type)

Reception of up to 4 MPEG2 transport streams encapsulated in UDP over IP interface

IP-GbE-Redundancy (Bundle with SFP-Modul ODP 135-30 - Type)

(SFP module required)
Redundancy for GbE-SFP-Interface (Switching criteria link-loss, sync-loss)

Processing (APA135-59 - Type)

Service- and PID filtering and multiplexing of up to 4 new transport streams out of the input signals according to DVB

NDS (APA135-56 - Type)

Due to the NDS Certification procedure NDS decryption is an option.

BISS decryption (APA135-57 - Type)

BISS (Basic Interoperable Scrambling System) Descrambler, MODE 0, MODE 1, BISS-E

Associated

BLANKOM Products

B-IRD DRD 694/695, DRD 696,

DRP 393

B-NOVA DXP 400

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