

DID111 DVB-S IRD



DID111 is a standalone 19" 1RU digital Satellite Receiver for both free-to-air and scrambled services. It is designed to be used in SMATV Headend station, where reliable operation is a prerequisite. DID111 is a part of the DiX product platform.

Features

- DVB-S Satellite front end for QPSK modulated signals
- Common Interface slot for CA Module
- Smart Card reader for embedded Conax
- User Interface by front panel LCD and buttons
- Watchdog protection for system failures
- Software updates via front panel Serial Port

Technical specifications

Parameter	Specification	Note
Satellite IF input		
Frequency range	950 ... 2150 MHz	
Input level range	-65 ... -25 dBm	
Impedance	75 ohm	
Return loss	8 dB	
AFC range	8 MHz	
Modulation	QPSK	ETS 300 421
Symbol rate	2 ... 45 Mbd	
Convolution code rate	1/2,2/3,3/4,5/6,7/8	Automatic recognition
Required E_b/N_0	ETS 300 421	
LNB Power		
Voltage	13/18 V	
Current	300 mA	
Tone frequency	22 kHz	± 20 %
Tone amplitude	0.65 Vpp	± 250 mV
Control protocol	DiSEqC 1.0	
System demultiplexer		
Compatibility	ISO/IEC 13818-1	
Teletext transcoding	ETS 300 472	

Common Interface

Connector	Single PCMCIA slot
Standard	EN50221
CA module	PC-Card type II

Smart Card reader

Connector	Single card slot
Standard	ISO 7816 1/2/3

Video decoder

Compatibility	ISO/IEC 13818-3
Modes	MP @ ML

Video output

Impedance	75 ohm	
Return loss	30 dB	0.1 ... 5 MHz
Level	1 Vpp	
Flatness	± 0.5 dB	

Audio decoder

Compatibility	ISO/IEC 13818-3
Layers	I and II
Sampling frequencies	16, 22.05, 24, 32, 44.1, 48 kHz
Modes	Stereo, Mono, Dual Mono

Audio Outputs

Impedance	30 ohm
Output level	1.55 Vrms
Adjustment range	0 ... 100%
Frequency range	40...20000 Hz
Flatness	+/- 0.5 dB
THD	0.2 %

Subtitling

EBU-teletext subtitling	ETS 300 472	Latin-1 character set
DVB Subtitling	ETS 300 743	Available Q1/04

General

Power consumption	15 W	
Supply voltage	190 ... 250 VAC, 50 Hz/60 Hz	
Connectors	F(f)	Sat IF I/O
	BNC(f)	video
	2 × RCA(f)	audio
	D9(f)	data (RS232)
Dimensions	44 x 440 x 180mm	h x w x d
Weight	2.5 kg	
Enclosure classification	IP21	
Operating temperature range	-10...+55 °C	
Storage temperature range	-30...+70 °C	
EMC compatibility	EN 50083-2	