EL 2,3- 23 GHZ - DIGITAL TV LINK

THE RADIO LINKS ARE COMPOSED BY TWO UNITS; AN INDOOR UNIT SHF (IDUSHF) (OPTIONALLY OUTDOOR UNIT ODU IN AERIAL HEAD) SUPPLIED IN A SINGLE 1-UNIT RACK CONTAINING THE RF TRANSMITTER (OR RF RECEIVER) AND A SECOND INDOOR UNIT LF (IDU-LF) SUPPLIED IN A SINGLE 1-UNIT RACK CONTAINING MO/DEMODULATOR (QPSK OR 16QAM MO/DEM) AND CO/ DECODER (MPEG2 CO/DEC + MUX).
ON THE FRONT PANEL, A COLOUR DISPLAY PROVIDES THE INFORMATION ABOUT THE FUNCTIONS OF EACH BOARD; THE VIDEO SIGNALS IN INPUT AND OUTPUT TO CODEC MPEG2 CAN BE EASILY CHECKED OUT.

THE POWER SUPPLY STAGE CAN RECEIVE EITHER ALTERNATE OR DIRECT VOLTAGE (EVEN SIMULTANEOUSLY); FURTHERMORE, IT CAN BE REMOVED COMPLETELY FROM ITS LOCATION TO ALLOW EASY AND QUICK MAINTENANCE.
THE PROGRAM OF THE FUNCTION CAN BE REALIZED EITHER LOCALLY BY THE KEYBOARD, OR REMOTELY BY MEANS OF AN INTERFACE ETHERNET 10 /100 BASE T WHICH ALLOWS A REMOTE CONNECTION ALSO THROUGH THE WEB.
TWO OTHER SERIAL INTERFACES RS 232 AND SIX RELÈ CONTACTS COMPLETE THE INTERFACES.

IF + ODU version

STANDARD SYSTEM COMPOSED BY:
- TX DVB IF MODULATOR
- TX ODU TRANSMITTER
- RX ODU RECEIVER
- RX DVB IF DEMODULATOR
- 2XPARABOLIC DISH
- 2XROLL LOW LOSS CABLE 50MT

VERSION	MODEL	DESCRIPTION
IF +ODU	EDL2327-ODU	DTV Link 2W@2.3-2.7GHz N Connector
IF +ODU	EDL5254-ODU	DTV Link 1W@5.2-5.4GHz PDR70
IF +ODU	EDL5964-ODU	DTV Link 1W@5.9-6.4GHz PDR70
IF +ODU	EDL6472-ODU	DTV Link 1W@6.4-7.2GHz PDR70
IF +ODU	EDL7080-ODU	DTV Link 1W@7.1-8.5GHz PDR70
IF +ODU	EDL8085-ODU	DTV Link 1W@8.0-8.5GHz PDR84
IF +ODU	EDL1010-ODU	DTV Link 1W@10-10.7GHz UBR120
IF +ODU	EDL1112-ODU	DTV Link 1W@11.7-12.4GHz UBR120
IF +ODU	EDL1212-ODU	DTV Link 1W@12.1-12.5GHz UBR120
IF +ODU	EDL1213-ODU	DTV Link 1W@12.7-13.3GHz UBR120

↳ FREQUENCY

Modulation	Type QPSK, 16 QAM
Range	Microwave Band: 2.3 - 23 GHz
System Capacity	System Capacity ASI /E3 G703 (with optional de/coder one video plus two audio signals)
Output frequency stability	± 10 p.p.m. or better (synthesized version)
I.F. Frequency	70 MHz +/- 5 KHz
I.F. I/O Level / Impedance	From - 25 to 0 dBm in step 0,1 dBm / 75 Ohm BNC connector
I.F. I/O Return loss	> 26 dB
Impedance RF Connector	50 Ohm

↳ RECEIVER

I.F. Bandwidth	1.75 to 28 MHz (software selectable)
Dynamic range	> 50 dB
Noise figure weighted	Better then 5 dB at – 40 dBm
33 dB S/N Threshold	-86 dBm
Rejection @ 70 Mhz	60 dB (Band pass filter)
Return loss	26 dB minimum (Band pass filter)

↳ QPSK DE/MODULATOR– 16 QAM DE/MODULATOR

Mode	QPSK - ETS 300 421 (DVB-S) 16 QAM - ETS 301 210
FEC (code rate)	Viterbi 1/2, 2/3, ¾, 5/6, 7/8 selectable
Outer code	Reed Solomon (188 204)
Payload	From 3 to 45 Mbits/s on 500 Kb/s steps
Selectable roll off	0,15 – 0,55 in 0,05 steps
Data scrambling	X15+X14+1

↳ DECODER MPEG 2 – OPTIONAL –

Video Input	Analogue PAL composite, 1 Vpp 75 Ohm, BNC connector
Video encoding standards	ISO / IEC 13818-2 MP@ML (MPEG-2 4:2:0)
Picture type I, P, B	Horizontal: up to 720 pixel in 32 pixel steps Vertical PAL: up to 576 pixel in 32 pixel steps
Supported resolution	Full D1, ¾ D1. 2/3 D1, HD1, SIF
Audio input	Analogue two channel, 0 dBm 600 Ohm, BNC connector
Audio encoding standards	ISO / IEC 11172-3 (MPEG-1 audio) layer ½ compliant
Sampling frequency	32 KHz, 44,1 KHz, 48 KHz
Bit rate	Video 0,8 – 14 Mb/s Audio max 384 kb/s
Stream type	Transport Stream on ASI interface
Stream multiplexing standards	ISO / IEC 13818-1 (MPEG-2) PAT table
System Bit rate	Up to 45 Mb/s on 100 Kbit steps

↳ REMOTE CONTROL

Output Connector	Parallel Remote signals and controls with floating contacts
Ethernet interface	Connector RJ 46 TCP/IP Web server via Ethernet 10/100 base T

↳ STANDARD COMPLIANCE

R&TTE	Declaration of Conformity with regards to the Directive 1999/5/EC

↳ TEMPERATURE

Nominal range	0° to 45° C (Meets ETS 300 019 requirements)
Storage range	- 30° to 50° C
Maximum relative Humidity	90% non condensing
Max Operating Altitude	2500 mt. a.s.l.

↳ SPECIFICATIONS	2,3 ÷ 2,7 GHZ	5,2 ÷ 8,5 GHZ	10 ÷ 14,5 GHZ	21,1–23.6 GHZ
RF output power rms	1 W	1 W	1 W	0.5 W
Output Connector	N Type Female	PDR70	UDR120	UBR220
Dimensions (W x H X D) mm	482 x 44 x 312	482 x 44 x 312	482 x 44 x 312	482X44X312
Weight	2X5 Kg	2X5 Kg	2X5 Kg	2 X 5KG
Power consumption	Approx. < 30 VA	Approx. < 30 VA	Approx. < 30 VA	<30VA
Nr. of power supply boards	1 from 230 V a.c. ± 10%	1 from 230 V a.c. ± 10%	1 from 230 V a.c. ± 10%	1 from 230 Vac +-10%
DC Power Supply	24 V (20-31 V)	24 V (20-31 V)	24 V (20-31 V)	24 V
Type of ventilation	Forced Air	Forced Air	Forced Air	forced air