

FM Transmitters
DVB Transmitters
Radio All In One



REMUX DVB INTEGRATED DVB HEAD-END

OVERVIEW

The Remux DVB is an innovative “All-In-One” equipment that embeds in one cabinet the full DVB Head-end and monitoring functionalities necessary for broadcasting a DVB-T coupled with one DVB-T transmitter:

- DVB-T or DVB-S receivers
- Feature-rich multiplexer 2 or 4 inputs
- DVB-T receiver for transmitter monitoring
- MPEG2-TS analyser, in association with a 5 inputs TS switch for multipoints transmitting chain analysis.

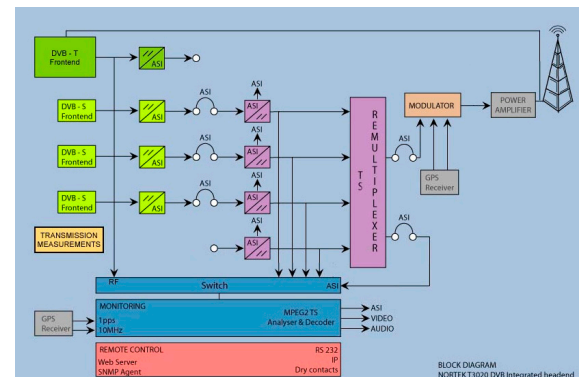
FEATURES

- All-in-one "19" - 4U
- Up to 4 pluggable DVB front-ends (DVB-T or DVB-S demodulators or ASI inputs) following customer's requirements for receiving services to be remultiplexed from different sources (e.g: national and regional TV channels)
- MPEG2-TS 2 or 4 inputs remultiplexer
- DVB-T/S demodulation and real time RF measurements
- MPEG2-TS analysis according to TR101 290 (monitored source switchable)
- MPEG2 or MPEG4 (optional) decoder supplying analog video and audio outputs
- Configurations, measurements and alarm management through the Ethernet TCP/IP interface (HTTP, FTP, TELNET, SNMP,...)
- Access to configuration and measurement data on front panel
- Remote control through RS 232 serial interface
- 4 dry contacts synthesis alarms
- Option: redundant power supplies

BENEFITS

- The Remux DVB integrated DVB head-end is a compact and fully configurable equipment ideal for medium or small power DVB-T transmitter sites.
- Due to its high integration and easy operation with one simple and intuitive GUI interface, the Remux DVB saves time and costs at procurement, at installation and during maintenance operations.

Integrated DVB Head-End:



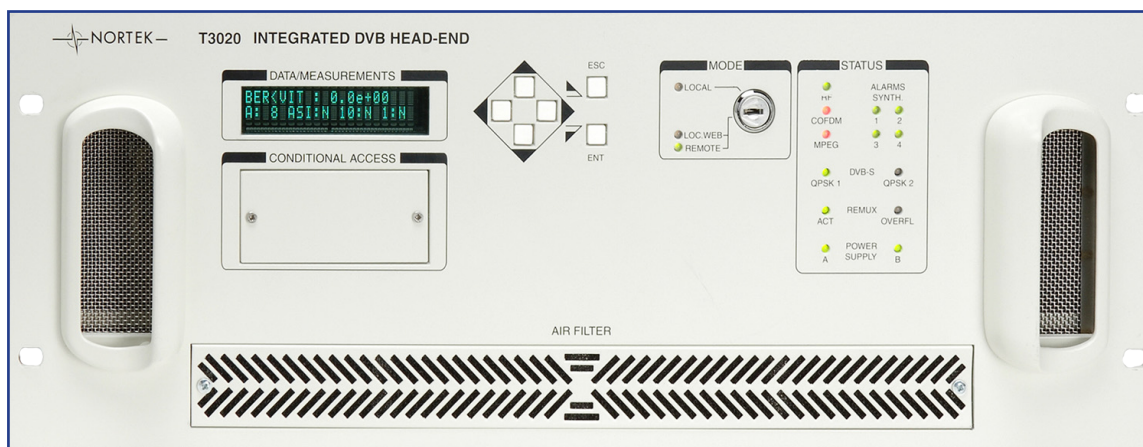
ALARMS-DRY CONTACTS

1 (or more) alarm is provided for each measurement. Its alarm threshold can be user set individually. 4 synthesis alarms are provided to allow the combination of 2 or more alarms according to a table defined by the user.

APPLICATIONS

- The Remux DVB is used by the terrestrial broadcasters as a complete head-end for supplying the Transport Stream to be broadcasted to one DVB-T transmitter.
- With its embedded real-time monitoring functionality, it allows easy diagnostics in case of failure or out-of-tolerance condition of the DVB-T broadcasted channel. It can be used in a global supervision management system with its remote control capabilities over TCP/IP Ethernet interface (HTTP, TTP, SNMP,...)

REMUX DVB - INTEGRATED DVB HEAD-END



Remux DVB Front Panel

MPEG2-TS ANALYSIS-DECODING

The TS inputs of the remultiplexer, the TS output of the remultiplexer and the demodulated TS from the DVB-T output can be switched and applied to the monitoring input.

The selected MPEG2-TS signal is then analysed according to TR 101 290. Description of the services, measurements of bit rates and table of alarms are provided.

The elementary audio and video MPEG stream selected by the user are decoded; Composite video (Pal or Secam), RGB and audio outputs are provided.

REMOTE CONTROL

Full remote control through Ethernet 10/100 BaseT TCP/IP interface for services HTTP, FTP, SNMP

Embedded web server, SNMP agent, FTP client

Remote control through RS 232 serial interface - synthesis alarms on dry contacts.

DOWNLOADING

All embedded softwares can be downloaded through Ethernet remote control access

ORDER INFORMATION

Standard version	
TFN00016-A0	Remux DVB-1 DVB Integrated head-end - Terrestrial television application
Options / Accessories	
SPN00009	QPSK (DVB-S) satellite receiver module for Remux DVB
SPN00010	COFDM (DVB-T) terrestrial receiver module for Remux DVB
SPN00011	ASI inputs 3 & 4 option for Remux DVB
SPN00012	Redundant power supply option for Remux DVB
SPN00013	MPEG4 decoder option for Remux DVB

TECHNICAL SPECIFICATIONS

Hardware description	
Dimension	Standard : 19"/ 4U Depth: 430 mm
Power Supply	115 - 240 V AC, 47 - 60 Hz
Operating temperature	0 to +50 °C
Consumption	< 200 VA
Communication	
Ethernet TCP/IP 10 base T	Protocols HTTP, FTP, SNMP
RS 232	Proprietary protocols based on SPCI-99
Relays	4 synthesis alarms - dry contacts
DVB-T terrestrial front-end	
Compliant with	ETS 300 - 744 specification
Tunable	Upon TV frequency bands VHF III and UHF IV-V / bandwidth 6, 7, 8 MHz
Level Input	-75 to -25 dBm
ASI output	
DVB-S satellite front-end	
Compliant with	ETS 300 - 421 specification
Frequency tunable	Upon 950-2150 MHz frequency band
Input level	-65 to -25 dBm
ASI output	
The Remux DVB performs permanently RF signals quality measurements on DVB-S and DVB-T front-ends	
MPEG2-TS REMULTIPLEXER	
Loop-through 2 or 4 ASI inputs (option)- 2 identical ASI outputs	
PID . Filtering and PID re-mapping facility	

Ref: Remux DVB Datasheet 08/2009

Technical specifications are subject to change without prior notice



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