



TT4021 Redundancy Controller

The TT4021 Redundancy Controller provides 1+1 redundancy switching combined with the advanced error detection and monitoring capabilities of the TT4000 Transport Stream monitoring family.

The TANDBERG TT4000 Transport Stream Monitoring family is designed to fulfil the increased need for monitoring and analysis of MPEG-2 networks and higher uptime expectations of service providers. The units are versatile, with design features aimed at real-time monitoring applications in all MPEG-2 markets. The TT4021 utilizes this technology and flexibility to provide a simple cost-effective 1+1 self managed redundancy switch for any MPEG-2, MPEG-4, or Windows Media® Video 9/VC-1 transport stream.

BASE UNIT FEATURES

TT4021 Redundancy Controller (TT4021/BAS/BB, TT4021/BAS/IF, TT4021/BAS/RF)

The highest level of redundancy achievable is 1+1 redundancy. The TANDBERG TT4021 Redundancy Controller provides this redundancy switching level, combined with the advanced error detection and monitoring capabilities. Rather than monitor the health of individual hardware units the TT4021 actually monitors the incoming transport stream for health giving a more reliable and robust redundancy switch.

The base unit has 3 variants depending on the type of switching required: Base-band, IF or RF.

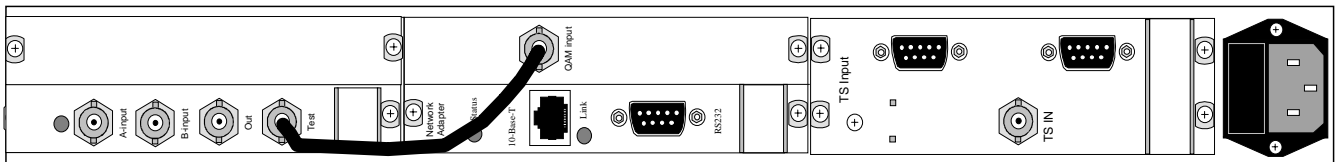
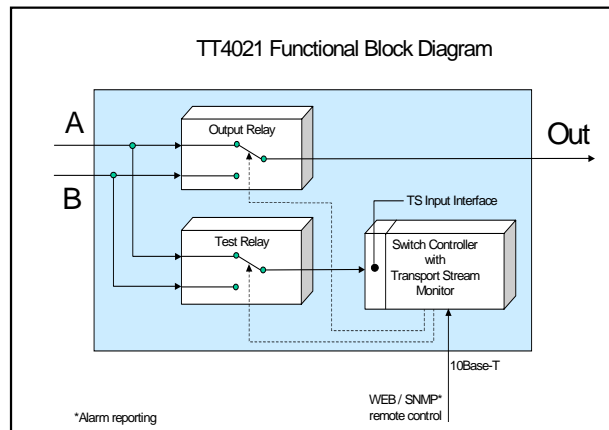
Key standard features include:

- DVB ASI and other input options
- Robust relay based switching: signal integrity independent of power supply
- Spare input source is checked before switching
- 2 x 1 real-time TS monitor switching
- User-friendly web interface
- Error detection according to ETR290 specification
- PSI / SI (DVB) and PSIP (ATSC) table analysis including MIP detection

HARDWARE OPTIONS

- DVB ASI Input (TT4021/HWO/IL1)
- DVB ASI Input – ASI Burst (TT4021/HWO/IL1C)
- QPSK Demodulator (TT4021/HWO/IM3)
- QAM Demodulator (TT4021/HWO/IM5)
- SMPTE 310 Input (TT4021/HWO/IT12)
- TTV G.703 34 Mbit/s (TT4021/HWO/IT5)
- TTV G.703 45 Mbit/s (TT4021/HWO/IT6)
- ATM AAL-1 (DVB G.703) 34 Mbit/s (TT4021/HWO/IT7)
- ATM AAL-1 (DVB G.703) 45 Mbit/s (TT4021/HWO/IT8)
- ATM AAL-1 155 Mbit/s Electrical (TT4021/HWO/IT16)
- ATM AAL-5 155 Mbit/s Electrical (TT4021/HWO/IT11)

SAMPLE CONFIGURATION



SPECIFICATIONS

Inputs

DVB ASI/M2S (spread and burst byte)
Connector: BNC (female)

QPSK Demodulator
Connector: BNC (female), 75 ohm
Frequency (IF): 70 or 140 MHz
Symbol rates: 5 – 30.5 Mbaud
LNC power: 13V or 18V
22KHz tone

QAM Demodulator (only Annex A)
Connector: F-type (female), 75ohm
Channel Bandwidth: 8MHz
Tuner frequency range: 50-860MHz

SMPTE 310M Input Interface
Connector: BNC (female)

G.703 TANDBERG Protocol Input Interface
Connector: BNC (female)
34Mbit/s (E3) and 45 Mbit/s (DS3) PDH rate

ATM/SDH Input Interfaces
34 (E3) or 45 (DS3) Mbit/s AAL-1, electrical (PDH)
155 Mbit/s AAL-1 electrical (SDH/SONET, STM-1)
155 Mbit/s AAL-5 electrical (SDH/SONET, STM-1)

Outputs

Same as input (Relay switched signal)

Features

1+1 Redundancy switching
Several switching modes supported
2 x 1 real-time TS monitor switching

Control

10BaseT Ethernet interface
TCP/IP protocol support
Remote control from Internet Explorer / Netscape Web Browser (must support JAVA 1.1)
SNMP agent for alarm reporting to Network Management System

Physical and Power

Dimensions (W x H x D)
435 x 370 x 44mm (19" x 13.5" x 1RU)
Input Voltage
110/240VAC, -48VDC (optional)
Cooling
Integrated fans

Environmental Conditions

Operating Temperature
0°C to 45°C (32°F to 113°F)
Storage Temperature
-20°C to 70°C (-4° F to 158°F)
Relative Humidity
5 to 95%

Compliance

CE marked in accordance with Low Voltage Directive (LVD) 73/23/EEC and EMC directive 89/336/EEC



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