

nSure

CP540

TS Monitoring Switch



The CP540 is ideal for intelligent 1+1 redundancy switch-over between two MPEG transport streams providing robust relay based switching.

The CP540 is part of T-VIPS' nSure product line which is designed to ensure the delivery of high-quality video content. The nSure product line simplifies the monitoring, analysis and switching of transport streams and services throughout video broadcast networks.

The CP540 ensures more reliable and robust delivery of video as the actual signals are monitored and not only the hardware equipment health status. The product monitors both incoming MPEG transport streams for health status and switch-over is based on configurable switching criteria.

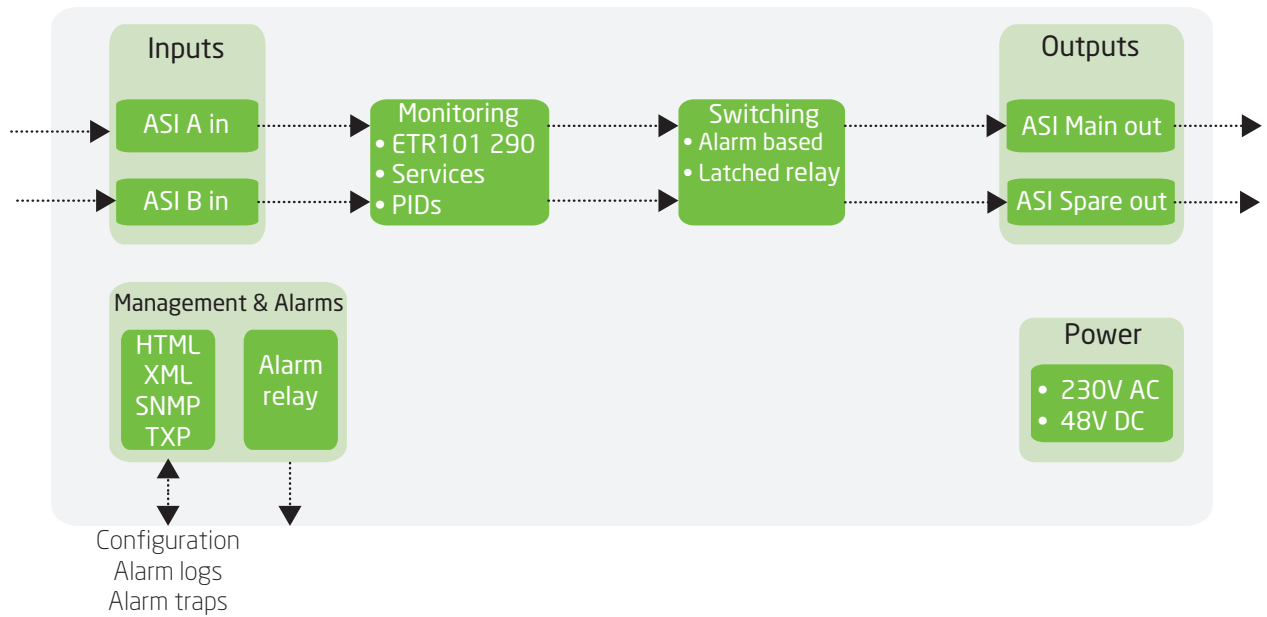
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Applications

- ASI/IP networks requiring top class reliability
- Satellite, terrestrial and cable distribution and contribution

Key features

- Intelligent switch-over between two input signals
- Robust relay-based switching
- Relay controlled switch with output passthrough
- Transport Stream monitoring and error detection
- Fully customisable switching criteria
- Performance logging
- Compact, cost-effective solutions
- User-friendly configuration and control



Flexible switching criteria

Easy configurable switching criteria to provide maximum flexibility to the user. Manual or automatic switching based on ETR 290 alarm conditions.

Transport Stream monitoring

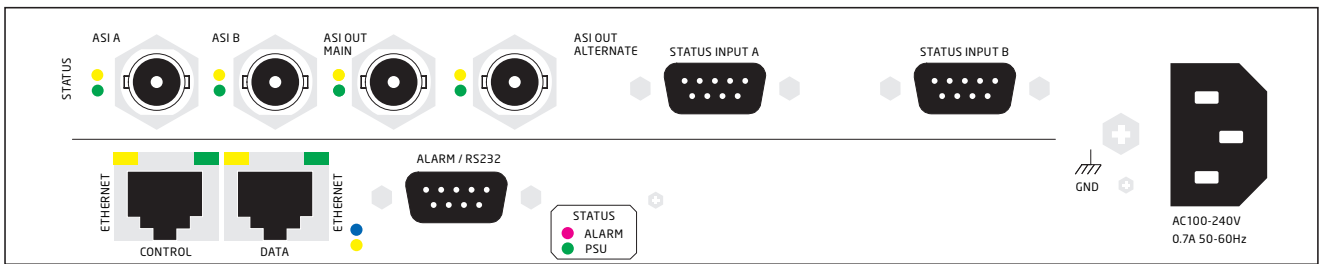
Continuous monitoring of input signals to ensure error-free operation. Error detection is performed according to ETR 101 290 priority 1, 2 and 3.

Robustness and reliability

Dual power supply for increased reliability. Relay protected main outputs ensures signal passthrough in the event of power loss or power supply failure.

User-friendly configuration

Faster configuration and shorter response time through a simple and very intuitive user interface.. Supports any web browser which allows access from any computer.



Transport Stream interfaces

DVB-ASI	Inputs: 2 DVB ASI EN 50083-9, Annex B Outputs: 2 DVB ASI EN 50083-9, Annex B with passthrough 188 or 204 byte packet length Burst and Spread mode Female BNC connectors 75 Ohm.
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Switching capabilities

No. of switches	1 switch per unit
No. of input per switch	2 TS inputs per switch
Switch configurations	2:1
No. of outputs	1 main TS output and one spare output
Switching modes	Manual Automatic with input prioritization

Monitoring & alarms

Monitoring	ETR 101 290 Priority 1 real-time monitoring of all inputs Configurable thresholds values. Effective and total bitrate overview of all PIDs. Service analysis with Service Id, name and components. PID analysis (Type, scrambling and dynamic bitrate Graphical view of bitrate Bit rate monitoring with configurable min and max threshold for any PID
Alarms & logs	Standardised alarm levels according to ITU-T X.733 Configurable alarm severity level (individual, PID level, service level, input level) Simultaneous monitoring of two MPEG TS Full support for ETR 101 290 alarm conditions (Priority 1/2/3) PSIP related alarms from ATSC A/78 Minimum and maximum PID rate monitoring Circular events log for 10.000 entries Configurable and exportable (XML, CSV) logs

Management & control

Management port	10/100 Base-T Ethernet Connector: RJ45
Element control through HTTP/WEB based GUI	
XML Configuration import and export via HTTP	
SNMP agent for integration with Network Management System (NMS)	
Protocols	HTTP, XML, SNMPv2c
Alarm Relay	9 pin D-SUB. Four relays supported; one at configurable alarm level
Maintenance Port	USB version 1.1

Physical and environmental characteristics

Input Voltage	100-240V AC +/- 10%, 50/60 Hz, Dual power supply, optional -48V DC
Power consumption	35W max
Dimensions	1/2RU, full-width 19" (WxDxH) 210 x 300 x 44.5mm
Operating temperature	0°C to 50°C
Storage temperature	-20°C to 70°C
Relative humidity	5% to 95% (non condensing)
Compliance	CE: 73/23/EEC (Low voltage equipment) 89/336/EEC (Electromagnetic compatibility) CSA: Designed for CSA approval Safety: IEC60950 and EN60950 EMC: EN55022, EN55024, EN6100-3-2

Product options

CP540/DC	-48V DC power supply
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nSure



By adding intelligence to monitoring and switching, our nSure products protect both the content owner and the network operator.

We deliver solutions for service fallback, redundancy switching including seamless switching and continuous monitoring of Video signals, Transport Streams, services, PIDs and PSI/SI/PSIP tables. In an increasingly complex broadcast infrastructure, our solutions simplify the day to day operations of the network operator and provide an ideal tool for video signals and Transport Stream handling, redundancy, error detection and correction and fast diagnostics of erroneous signals.

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