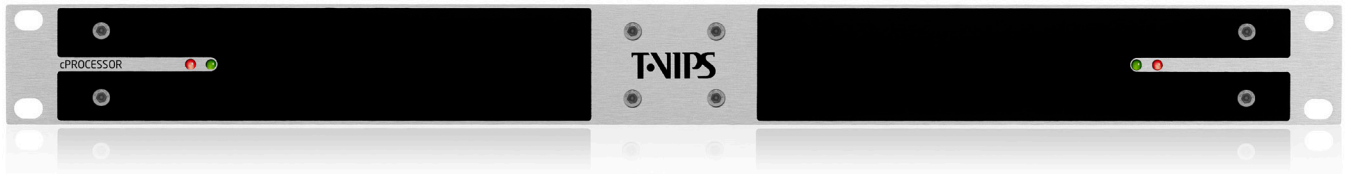


# CP545 TS Monitor



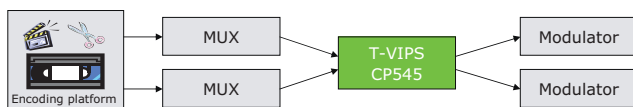
The CP545 provides efficient monitoring of up to 4 DVB ASI or SMPTE 310 streams.

CP545 is a powerful tool for continuous monitoring of transport streams, services, PIDs and PSI/SI/PSIP tables.

The CP545 is part of the T-VIPS' cProcessor suite; a line of compact, powerful and cost-effective products designed for processing and monitoring of MPEG transport streams.

In an increasingly complex broadcast infrastructure, the CP545 provides an ideal tool for continuous monitoring of MPEG-2 Transport Streams. CP545 performs error detection and fast diagnostics of an erroneous signal.

The CP545 provides remote supervision and monitoring of up to 4 transport streams. In addition, the product allows more in-depth analysis of the signal.



CP545 may be part of the main signal chain. An internal directional coupler is used to tap the monitored ASI signal. A failure in CP545 will not interrupt the signal.

## Applications

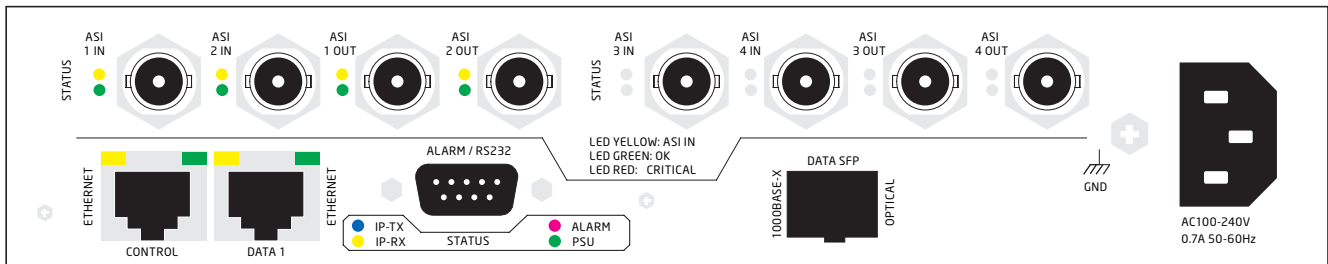
- Central head-end monitoring
- Remote monitoring of signals
- Monitoring of signals in transmission chain
- 24/7 continuous supervision of signals
- Stand-alone monitoring

## Key Features

- **Transport Stream monitoring and error detection**
  - Error detection according to TR 101 290 specification
  - Bitrate alarms
- **Powerful analysis**
  - TS, Service and PID analysis
  - PSI/SI (DVB) and PSIP (ATSC) table analysis
  - PCR analysis
- **SLA monitoring**
  - Monitors service level agreement parameters
  - Persistent internal alarm log
- **Compact, cost-effective solutions**
  - Simultaneous, real-time monitoring of up to 8 streams using two units side by side in 1 RU
- **User-friendly configuration and control**
  - WEB/XML based remote control
  - SNMP agent for easy integration with NMS systems
  - Integrated with T-VIPS Connect
  - Integrated with Data Miner
- **Signal loop-through**
  - Output not interrupted during power breaks



## CP545 TS Monitor



### Transport Stream Interfaces

Inputs: Up to 4 DVB ASI or SMPTE 310

Outputs: Up to 4 passive loop-through of inputs

Connector: Female BNC

Total Bitrate: Max. 213Mbit/s

### Features

Error detection: Error detection based on TR 101 290.  
Configurable threshold values.

Transport Stream analysis: Effective and total bitrate  
Overview of all Services and PIDs

Service analysis: Service Id, name and components

PID analysis: Type, scrambling and dynamic bitrate  
Graphical view of bitrate

PCR analysis: Graphical histogram view  
of jitter analysis

Table analysis: Comprehensive PSI/SI/PSIP table  
analysis with decoding of all standard  
descriptors. Private sections decoding  
possible using user defined syntax files.

SLA monitoring: Top level statistics of up time

PID rate alarms: Configurable min/max rate thresholds

Service rate alarms: Configurable min/max rate thresholds

Configurable alarm levels: Alarm levels can be configured for all  
alarms. PID-specific levels possible.

Alarm log: Circular persistent log of up to  
10 000 entries

### Control and Management

Type: 10/100 Base-T Ethernet

Features: Element control through HTTP/  
WEB. XML Configuration import and  
export via HTTP. SNMP traps for  
integration with Network Management  
System (NMS).

Protocol: HTTP, XML, SNMPv2c

Connector: RJ45

Alarm Relay: 9 pin D-SUB

Maintenance Port: RS232 9 pin D-SUB

### Physical and Power

Input Voltage: 100-240V AC +/- 10%

Input Voltage Option: -48V DC

Dimensions: 1RU, 1/2-width 19"

(WxDxH) 210 x 300 x 44.5mm

Two units in 19" 1RU rack space

Installation: 19" rack mounting kit supplied

### Environmental Conditions

Operating Temperature: 0°C - +50°C

Storage Temperature: -20°C - +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