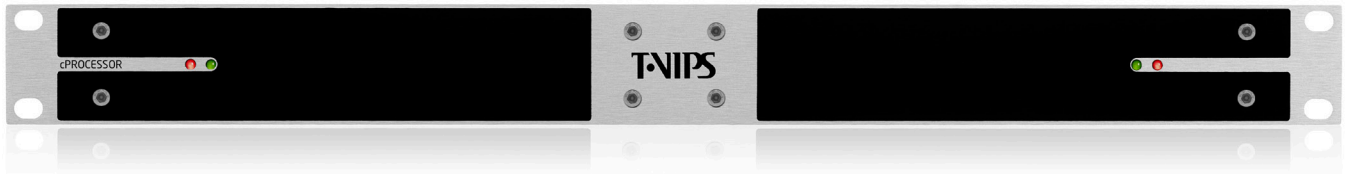


CP525 cMUX Remultiplexer



The CP525 cMUX Remultiplexer is a powerful tool for flexible processing, multiplexing and scrambling of MPEG transport streams at regional headends and other locations. The product provides service and component filtering/multiplexing and PSI/SI/PSIP table updates.

The CP525 is part of T-VIPS' cProcessor toolbox which makes TS processing simple and delivers flexible, cost-effective interfacing to broadcast and IP-based networks.

The product provides flexible and powerful, opportunistic data insertion and PSI/SI/PSIP processing.

The CP525 provides flexible interfacing to DVB ASI, SONET/SDH and IP networks and allows network operators to easily perform regional insertion of local programs.

The CP525 supports SFN adaptation with MIP insertion.

Applications

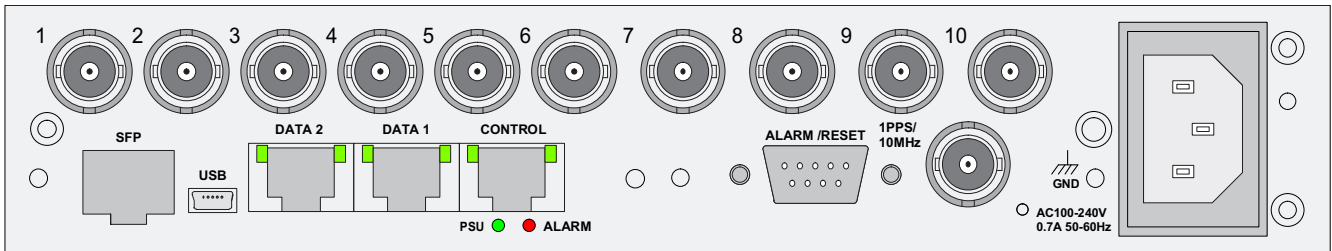
- Regional and general multiplexing
- Regionalization of multiplexes by service add and drop
- Adaptation of SI for regional program package
- Increased bandwidth utilization by optimized insertion of SI tables
- SFN adaptation

Key Features

- **Flexible transport stream processing**
 - PID and service multiplexing/filtering
 - Automatic or manual remapping of PIDs and Service IDs
 - Service component routing based on PID or component tag
 - Insertion of unsignalled PID ("Ghost PID") on outgoing services
 - SFN adaptation with MIP insertion (option)
- **Advanced Traffic Policing**
 - Overflow protection by service, PID and/or SI prioritization
 - Individual bandwidth policing of services and PIDs
- **Powerful PSI/SI/PSIP handling**
 - Automatic PSI/SI/PSIP regeneration and playout
 - PSI/SI/PSIP EPG download and playout (option)
 - Enhance perceived EIT "quality of service" playout (option):
 - Faster playout of expired events.
 - Possible to saturate the transport stream with EIT data
 - PSI/SI/PSIP editor (option)
 - Dynamic PSIP generation from ATSC PMCP (A/76B) XML data (option)
- **Scrambling**
 - DVB CSA Simulcrypt scrambling (option)
- **Transport Stream Monitoring**
 - ETR 101 290 Priority 1 monitoring of all incoming signals
- **Input redundancy**
 - Hitless protection with RTP/IP diversity reception (option)
 - Automatic input switching on loss of signal (option)
 - Service fallback redundancy (option)
- **Flexible Transport Stream interfacing**
 - Support for DVB-ASI and MPEG-2 TS on IP
 - Two Gigabit Ethernet interfaces for Transport Streams on IP
 - IP multicast and unicast support
 - Multiple TS output copies on IP (smallcast)
 - Optional support for Ethernet over SONET OC-3 / SDH STM-1
- **Compact, cost-effective solutions with 2 units in 1RU**
- **User-friendly configuration and control**
 - WEB/XML based remote control
 - SNMP agent for easy integration with NMS systems
 - Integrated with T-VIPS Connect



CP525 cMUX Remultiplexer



Transport Stream Interfaces

Connections:

Ports: 1-10 DVB ASI or SMPTE 310
1-8 inputs/outputs, min. 2 outputs

Connector: Female BNC

Input Bitrate: Max. 200Mbit/s

Output Bitrate: Max. 200Mbit/s

Gigabit Ethernet (option):

Type: 2 x 100/1000Base-T Ethernet
1 x SFP

Connectors: RJ45 (100/1000Base-T)
SFP

TS Encapsulation: SMPTE 2022 -1/2

Features

- Transport stream multiplexing: Service and component based multiplexing
Automatic or manual remapping of PIDs and Service IDs
- Advanced traffic policing: Individual policing of service and PID bandwidth
- PSI/SI/PSIP handling: PSI/SI/PSIP editing or regeneration
PSI/SI/PSIP download and playout
Dynamic PSIP generation
Add new component signalling
- Input signal monitoring: TR 101 290 priority 1
- Input redundancy: Input switching on loss of signal
RTP/IP diversity reception
- Scrambling: DVB Simulcrypt TS-103-197
BISS Mode 0/1
- IP "smallcasting": Up to eight TS output copies on IP

SFN (Option)

- SFN Megaframe adaption: Megaframe Initialisation Packet (MIP) insertion ETSI TS 101 191
- Time reference input: 1pps and 10MHz
Connector: Female BNC, 50 ohm
- SFN Operational Modes: 2k and 8k modes in 8, 7 and 6 MHz bandwidth

Control and Management

Type: 10/100 Base-T Ethernet

Connector: RJ45

Features: Element control through HTTP/WEB
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. Two relays supported; one at configurable alarm level.

Maintenance Port: USB version 1.1

Physical and Power

Input Voltage: 100-240V AC +/- 10%, 50/60 Hz

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

EMC: EN55022, EN55024,
EN6100-3-2