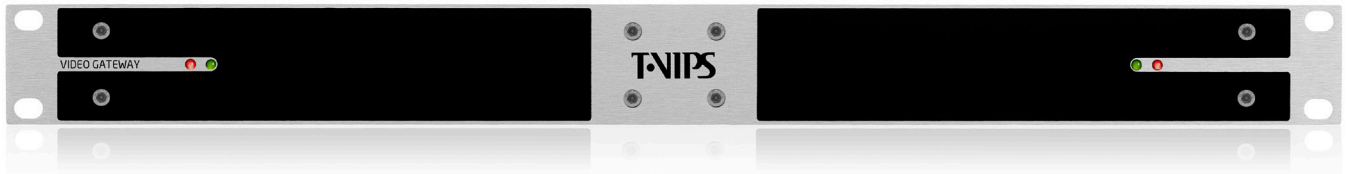


# TVG410 SDI to IP Video Gateway



The TVG410 provides a market-leading solution for transmission of uncompressed digital video (SDI) over IP networks.

The solution provides uncompromising video quality with no signal degradation.

The TVG410 is part of the T-VIPS' Video Gateway suite; a line of compact, powerful and cost-effective products designed for real-time Contribution and Distribution of broadcast quality video over IP networks.

The solution provides uncompromising video quality with no signal degradation.

By taking advantage of the inherent flexibility of IP, broadcasters are offered an efficient, affordable and scalable solution for professional quality video contribution.

The product also allows network operators to build cost effective MPLS or Metro Ethernet networks for video transport.

The TVG410 carries any SDTI signal e.g. DV, DVCPRO and digital S.

## *Applications*

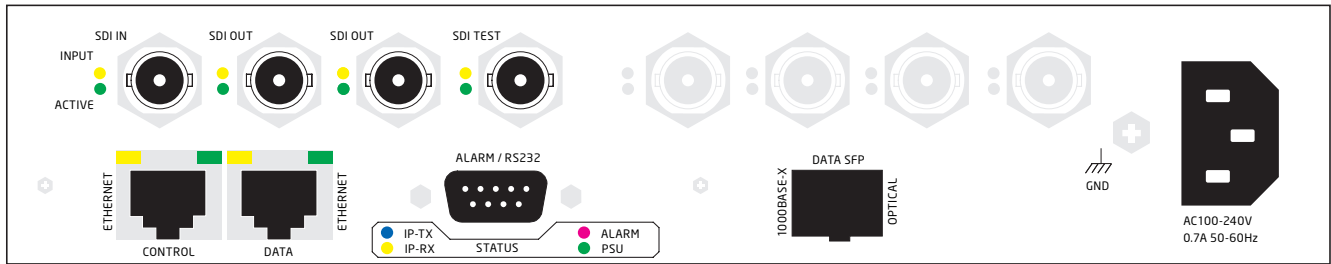
- Professional broadcast contribution
- Studio-to-studio media exchange
- In-house signal distribution and routing
- Post-production
- Live event coverage

## *Key Features*

- **Uncompressed SDI over Gigabit Ethernet**
  - Transparent 10 bit video and embedded audio
  - Transparent transmission of all ancillary data formats including SDTI
- **Pro-MPEG CoP4 Forward Error Correction**
  - Robust Forward Error Correction specified by Pro MPEG Forum
  - Error concealment to reduce impact of uncorrected packets
- **Very Low Delay**
  - No encoding delay introduced; minimal buffering at transmitter and receiver
- **Redundancy**
  - Scalable redundancy scheme
- **End-to-end Quality of Service**
  - TOS/COS field support for reliable end-to-end transmissions
- **Compact, cost-effective solutions**
  - Complete modem in 1RU
  - User configurable as transmitter or receiver
- **User-friendly configuration and control**
  - WEB/XML based remote control
  - SNMP agent for easy integration with NMS systems
  - Integrated with T-VIPS Connect



## TVG410 SDI to IP Video Gateway



### Video Interfaces

Input: SDI (SMPTE259)  
 Output: SDI (SMPTE 259M-1998)  
 2 main and 1 test outputs  
 Connector: Female BNC  
 Bitrate: 270Mbit/s  
 Reference Input: SDI (SMPTE259)

### Network Interfaces

Type: 1000Base-T Ethernet  
 Protocols: IEEE802.3 Ethernet  
 RTP, ARP, IPv4, IGMPv2/3, TCP/UDP,  
 RIPv2  
 Connector: RJ45  
 SFP Module (Option)

### Features

Video Encapsulation: Pro-MPEG Forum CoP-4  
 Forward Error Correction: Pro-MPEG Forum CoP-4  
 Error Concealment: Video content from previous line.  
 Data from previous frame.  
 Frame Store: Skip or repeat. Transition to grey/black  
 after timeout.  
 Network Jitter Range: 0-100ms  
 SDTI: Transparent transmission  
 SDI Synchronization: Locked to external reference SDI signal  
 or internal clock

### Control and Management

Type: 10/100 Base-T Ethernet  
 Features: Element control through HTTP/WEB.  
 SNMP traps for integration with  
 Network Management System (NMS)  
 Protocol: HTTP, XML, SNMP v2  
 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: CSA approved  
 Safety: IEC60950 and EN60950  
 EMC: EN55022, EN55024,  
 EN6100-3-2