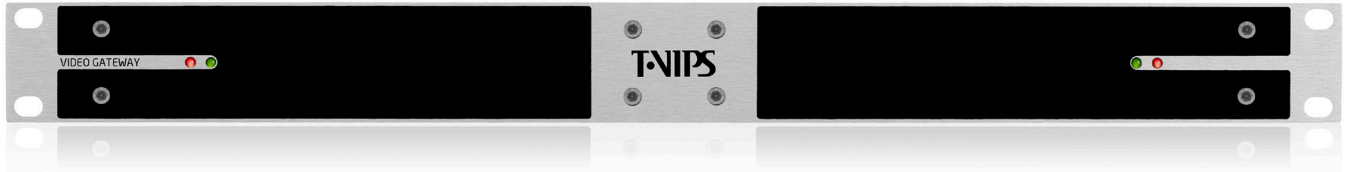




# TVG420 ASI to IP Video Gateway



The TVG420 provides a market-leading solution for transmission of compressed digital video over IP networks.

Up to 8 DVB ASI transport stream connections together with a Gigabit Ethernet interface gives a very compact and cost effective solution.

The TVG420 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 product is the result of long pioneering experience in video-over-IP networks

By taking advantage of the inherent flexibility of IP, broadcasters are offered an efficient, affordable and scalable solution for professional quality video-contribution. The TVG420 extensive control and robust handling of IP networks

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

The TVG420 handles any MPEG transport stream carrying MPEG-2, MPEG-4 (H.264) or VC.1 compressed video in Standard Definition as well as High Definition.

## *Applications*

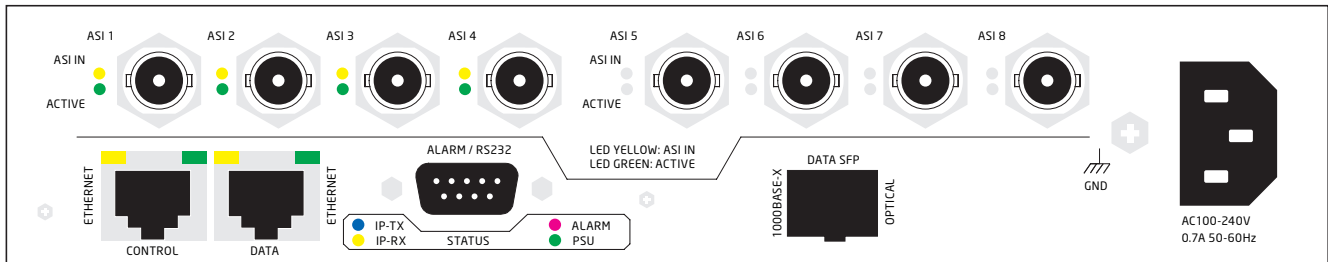
- Professional broadcast contribution and distribution
- Live event coverage
- DVB-T/H SFN/MFN distribution over IP

## *Key Features*

- **Transmission of MPEG Transport Streams over Gigabit Ethernet**
  - User configurable direction of up to 8 inputs /outputs
  - Fast and accurate locking to Transport Stream
  - Supports both CBR and VBR Transport Streams
  - 1PPS/10MHz synchronization for accurate bitrate control in SFN DVB-T/H networks
  - VLAN support
- **End-to-end Quality of Service**
  - Forward Error Correction for increased network robustness
  - TOS/COS field support for traffic prioritisation
  - Persistent internal alarm log
- **Redundancy**
  - T-VIPS Embedded Redundancy Controller provides fast redundancy switching from main to standby TVG420
  - Scalable redundancy scheme
  - RIPv2 assisted redundancy
- **Compact, cost-effective solutions**
  - Complete transmitter / receiver in 1RU
  - User configurable direction of each individual input/output port
- **User-friendly configuration and control**
  - WEB/XML based remote control
  - SNMP agent for easy integration with NMS systems
  - Integrated with T-VIPS Connect



## TVG420 ASI to IP Video Gateway



### Transport Stream Interfaces

Ports: 4 DVB ASI or SMPTE 310  
 Optional 8 DVB ASI or SMPTE 310  
 User configurable as inputs or outputs.  
 License for 1,2,3,4 or 8 active ports.

Connector: Female BNC  
 Bitrate: Max. 213Mbit/s

### Network Interfaces

Type: 100/1000Base-T Ethernet  
 Protocols: IEEE802.3 Ethernet  
 RTP, ARP, IPv4, IGMPv2/3, TCP/UDP,  
 RIPv2, VLAN (IEEE 802.1Q)

Connector: RJ45  
 SFP Module (Option)

Total Bitrate: Max. 700 Mbit/s  
 Ethernet MTU Length: Max. 1500 bytes

### Stream Processing

TS Encapsulation: SMPTE 2022-2  
 Forward Error Correction: SMPTE 2022-1  
 Transport Stream Processing: Transparent

### 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). SNMP control.  
 Protocol: HTTP, XML, SNMP v2  
 Connector: RJ45  
 Alarm Relay: 9 pin D-SUB

### Embedded Redundancy Controller

Function: Changeover from main  
 to spare TVG420 transmitter  
 External switch control: Configurable OID command

### 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

### SFN Synchronization Option

Reference Input: 1PPS and 10MHz inputs (50 Ohm)  
 Bit rate control: Automatic from MIP packets

### 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