

# T-VIPS<sup>®</sup> Connect

## TVG430 HD JPEG2000 Gateway

The TVG430 provides an ideal solution for transmission of HDTV over IP networks.

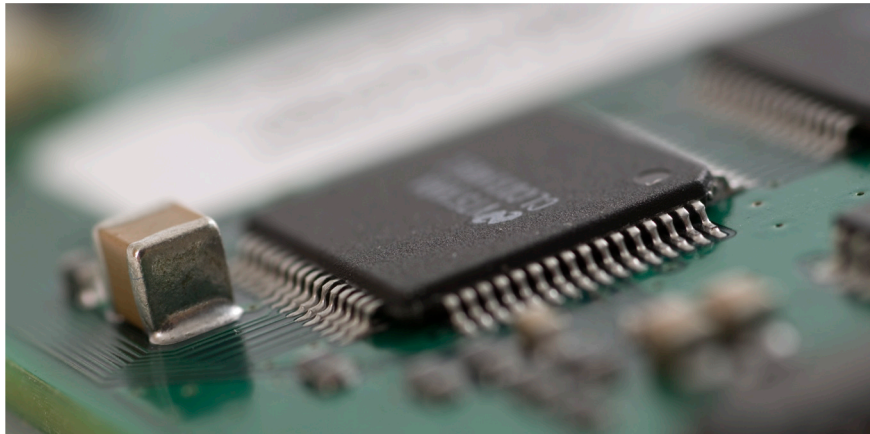
The JPEG2000 compression allows transmission of HDTV signals over Gigabit Ethernet links.

The TVG430 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.

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

The product also allows network operators to build revenue-generating professional Wide Area Networks for the video industry.

The TVG430 provides JPEG2000 compression of HD-SDI signals allowing transmission of HDTV signals over Gigabit Ethernet links.



### Applications

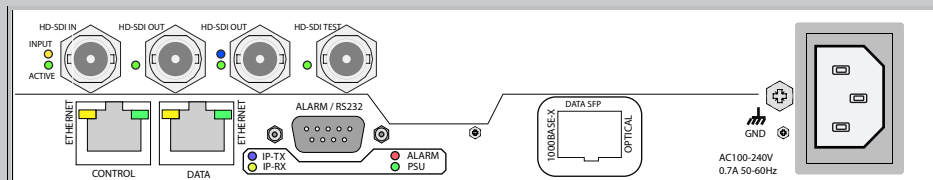
- Professional broadcast contribution
- Studio-to-studio media exchange
- In-house signal distribution and routing
- Post-production
- Live event coverage

### Key Features

- **High Quality Video**
  - JPEG2000 compression
  - 10 bit video
  - Intraframe encoding
- **Robust transmission of HDTV signals**
  - Flexible Forward Error Correction
  - Error concealment
- **Very Low Delay**
  - Encoding and decoding delay less than 100ms
- **Redundancy**
  - Scalable redundancy scheme
- **Ancillary data support**
  - Transparent transfer of embedded audio and vertical ancillary data
- **Compact, cost-effective solutions**
  - Complete transmitter / receiver in 1RU
  - User configurable as transmitter or receiver
- **User-friendly configuration and control**
  - WEB/XML based remote control
  - Easy integration to NMS systems with SNMP Trap support
  - Integrated with T-VIPS Connect

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## TVG430 HD JPEG2000 Gateway



TVG430 HD JPEG2000 GATEWAY

### Video Interfaces

Input:	HD-SDI (SMPTE 292M-1998)
Output:	HD-SDI (SMPTE 292M-1998) 2 main and 1 test outputs
Connector:	Female BNC
SDI Clock:	Locked to external SDI input (SD/HD)

### Network Interfaces

Type:	100/1000Base-T Ethernet
Protocols:	IEEE802.3 Ethernet RTP, ARP, IPv4, IGMPv2/3, TCP/UDP
Connector:	RJ45 SFP Module (Option)

### Video Encoding

Video Encoding:	JPEG2000
IP Encapsulation:	MXF over RTP
IP Bitrate:	25 to 200 Mbit/s
Forward Error Correction	Forward Error Correction based on Pro-MPEG Forum CoP-4 FEC

### HD Resolutions

SMPTE 274M-2003 System 5:	1920 x 1080/59.94/I
SMPTE 296M-2001 System 2:	1280 x 720/59.94
SMPTE 274M-2003 System 6:	1920 x 1080/50/I
SMPTE 296M-2001 System 3:	1280 x 720/50
SMPTE 274M-2003 System D:	1920x1080/24/PsF

### Audio and Ancillary data

Audio formats:	Embedded audio (SMPTE 299M-1997) Uncompressed, 16 channels, 20 bit
Data formats:	Ancillary data (SMPTE 291M-1998) Transparent
Audio/video delay:	+/- 1 line

### Control and Management

Type:	10/100 Base-T Ethernet
Features:	Element control through HTTP/ WEB. XML SNMP traps for integra- tion with Network Management System (NMS). SNMP control.
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 equip- ment) 89/336/EEC (Electromagnetic compatibility)
CSA:	Designed for CSA approval
Safety:	IEC60950 and EN60950
EMC:	EN55022, EN55024, EN6100-3-2

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