

TVG420i FEC Inserter



The TVG420i provides a market leading solution for Forward Error Correction data insertion in IPTV networks.

The product generates FEC data for up to 20 streams (unicast/multicast).

The TVG420i 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 allows IPTV operators to improve Quality of Service. Use of FEC results in less packet loss and thereby a better TV experience. In addition, longer reach on the DSL network can be achieved by use of FEC.

Interoperability is confirmed with major set-top box manufacturers. Set-top boxes not supporting FEC will not be influenced by the solution.

Applications

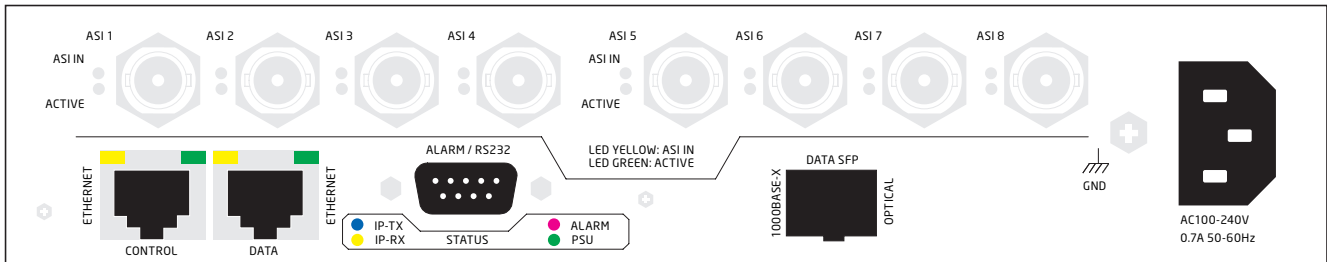
- FEC insertion in IPTV systems
- General FEC insertion on IP-encapsulated MPEG-2 Transport Streams

Key Features

- **Forward Error Correction insertion**
 - Adds FEC for up to 20 IP streams
 - Extended matrix sizes
- **Flexible IP stream configuration**
 - IP input/IP output on same port
 - Unicast and multicast
- **Compact, cost-effective solutions**
 - Two 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



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Network Interfaces

Type: 100/1000Base-T Ethernet
 Protocols: IEEE802.3 Ethernet
 RTP, ARP, IPv4, IGMPv2/3, TCP/UDP
 Connector: RJ45
 SFP Module (Option)
 Ethernet MTU Length: Max. 1500 bytes

Stream Processing

Number of streams: 20
 Maximum total Bitrate: Max. 56 Mbit/s
 Forward Error Correction: ETSI TS 102 034 Annex E3
 SMPTE 2022-1
 Transport Stream Processing: Transparent
 Encapsulation: Input: SMPTE 2022-2 or UDP only
 Output: SMPTE 2022-2
 Multicast/unicast input/output
 VLAN input/output
 Monitoring: MPEG-2 CC counter discontinuity
 RTP sequence number discontinuity

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.
 Protocols: 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: CSA approved
 Safety: IEC60950 and EN60950
 EMC: EN55022, EN55024,
 EN6100-3-2