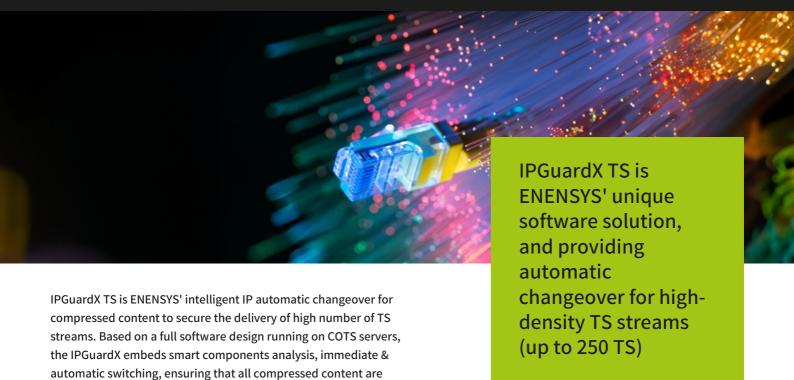
# **IPGuardX TS**

## Automatic changeover for High-density TS



#### Dense solution for TS over IP

delivered 24/7 with the best QoS and QoE.

IPGuardX supports automatic changeover of high-density TS streams. A single server can provide redundancy for up to 250 Transport Streams (SPTS or MPTS) of up to 10 Gpbs. It analyzes the redundant TS individually and triggers an automatic changeover based on ETR290 Level 1 criteria to output the best of the 250 incoming streams.

#### **CAPEX and OPEX costs saving**

The IPGuardX provides automatic change-over between redundant streams reducing the number of streams delivered across the network. With IPGuardX, it is no longer necessary to broadcast the same content twice from each sender device to provide ST2022-7 redundancy on the receiver side. The IPGuardX selects the best of the input stream and deliver only once the content across redundant networks

#### **Maintain Service Continuity**

IPGuardX can switch automatically between IP-based devices or IP networks by automatically selecting the best streams based on configurable criteria. The IPGuardX can also provide bypass feature to always output the incoming streams.

#### **Running on COTS server**

IPGuardX runs on Commercial Off-the-Shelf servers, ensuring CAPEX optimization and efficient use of incumbent IT infrastructures.

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#### **Applications**

- Secure the delivery of high number of TS over IP
- Secure the delivery of TS delivered across low cost Internet Networks
- Secure the delivery of transport streams delivered over redundant networks
- Automatic changeover of any equipment delivering TSoIP

#### Other benefits

- Failsafe Bypass mechanism to provide 100% of service availability
- Network Address Translation to simplify network
- Easy-to-use for day-to-day operation with outstanding dashboard

### **Technical specifications**

#### **INPUTS/OUTPUTS**

1x Gigabit Ethernet (RJ45) for control and monitoring over GUI, SNMP, and HTTP Rest AP

SRT Tunnel option on TS inputs (Caller mode)

4x 10/25Gbps data ports Failsafe bypass (hardware bypass) as an option

#### **FEATURING**

#### High-density TS changeover

Up to 250 TS over IP streams Up to 10 Gpbs throughput per input

#### **SRT Input**

Automatic changeover between TS streams delivered across the Internet Automatic changeover between TS streams delivered across Non-managed Networks (Internet) and Managed Networks (Satellite, Fibber, Microwave)

#### **IP Network Adaptation**

Stream duplication (Up to 8x outputs) VLAN management

NAT support

#### TS Switching conditions

Stream presence RTP packet loss ETR290 Level1 Minimum Bit Rate

#### Switching modes

Automatic switch

Priority input with user-configurable changeover period Manual switch - Can also manually trigger a changeover of all inputs

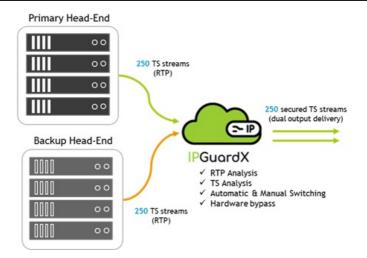
#### Monitoring & supervision

Real-time monitoring of incoming streams Web-based GUI

HTTP Rest API for control & monitoring

# **IPGuardX TS**

## Automatic changeover for High-density TS



### **Ordering codes**

#### IPGuardX-TS-Access

Automatic changeover of high-density of TS streams based on ETR290 Level1 analysis, stream presence and RTP packet loss. Support up to 2x1Gpbs of TS inputs

### **Ordering options**

#### IPGuardX-TS-1Gpbs

Add 2x1 Gbps TS inputs capacity (Up to 2x10Gpbs TS inputs in total)

#### IPGuardX-TS-Performance

Includes the IPGuardX-TS-Access features Support SRT input