



Luminato headend platform

## IP MULTIPLEXER MODULE CENTRALIZED IP VIDEO PROCESSING

The Teleste Luminato IP multiplexer module enables flexible multiplexing of SPTS and MPTS video services and also PSI/SI table streams. The high-quality multiplexing module is ideal for an IP headend solutions to create MPTS at the main headend for sending through IP network to remote headends.

### **Effective flexibility**

The Luminato IP multiplexer module is fully compatible with the high-performance Luminato chassis, where it can be fitted freely to any of the six module slots. In accordance with the Luminato system architecture, the video processing is inbuilt to modules, which enables low-cost applications even with partially equipped chassis, while having the performance scalability to fully equipped chassis.

### **Embedded content protection**

IP multiplexer module has the optional capability to perform DVB Common Scrambling Algorithm and AES based content protection. The embedded scrambling doesn't require any additional hardware and the user can freely select which services will be scrambled. The component level scrambling is also supported to allow only video and audio scrambling and leave other streams untouched to avoid descrambling challenges for bursty data in set-top boxes.

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## IP MULTIPLEXER MODULE / CENTRALIZED IP VIDEO PROCESSING

### Versatile functionality

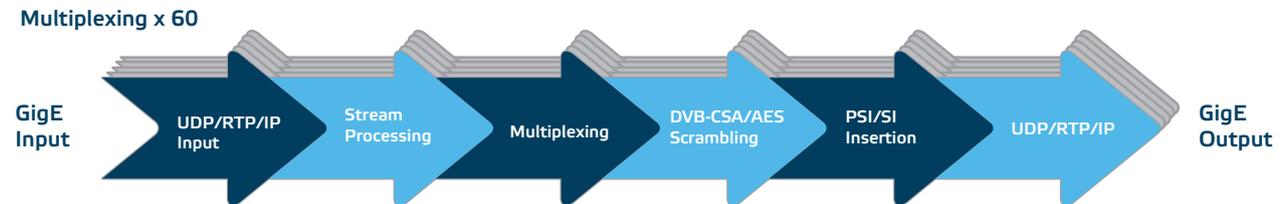
The Luminato IP multiplexer module supports a selection of free-to-air and scrambled services from IP stream sources, which can be adjusted to the operator's service line-up with the built-in advanced transport stream processing capabilities. The Luminato IP multiplexer module supports any definition such as Standard Definition and High Definition in MPEG-2 and MPEG-4 AVC transport stream formats.

### Efficiency and reliability

With the advanced transport stream processing, the operator can select the services and components which are relevant to the network. The Luminato will follow-up any changes on the stream automatically readjusting the processing to provide uninterrupted services..

### Features

- DVB TS reception over UDP/IP or RTP/UDP/IP
- IP address/UDP port selector for input streams
- Network dejittering & PCR processing
- Advanced transport stream processing
- Supports SPTS and MPTS multiplexing
- Automatic PSI/SI table generation
- Custom PSI/SI table creation and streaming
- Dual port streaming
- MPEG transport stream over UDP/IP and RTP/UDP/IP streaming
- MPTS passthrough
- Multiplex IP streaming (VBR or CBR)
- DVB CSA and AES content protection



IP multiplexer block diagram

IP INPUTS		DVB CSA AND AES CONTENT PROTECTION	
Frame formats	UDP/IP, RTP/UDP/IP	Scrambled services	up to 120 per module
TS packets per UDP frame	1...7	IP STREAMER OUTPUT	
Max input streams per module	120	Framing format	UDP/IP, RTP/UDP/IP
MULTIPLEXERS		Traffic type	unicast or multicast
Number of muxs per module	1...60	TS format	VBR, CBR
Max services per mux	120	Max TS speed/streamer (examples)	1 x 200 Mbits/s – 1 mux
Max services per module	120		2 x 200 Mbits/s – 2 muxs
Max components per mux	1000		4 x 100 Mbits/s – 4 muxs
Max components per module	1000		60 x 6.7 Mbits/s – 60 muxs
GENERAL			
Power consumption	5 W	Enclosure classification	IP21
Supply voltages	24 V	Operating temp. range	-10...+55 °C
Dimensions (h x w x d)	(20 x 109 x 253) mm	Storage temp. range	-30...+70 °C
Weight	0,35 kg	Specification is met	0...+45 °C

TELESTE CORPORATION  
[www.teleste.com](http://www.teleste.com)

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