Luminato headend platform

DVB-ASI OUTPUT MODULE
MULTIPLEXER FOR LUMINATO

The DVB-ASI output module enables flexible multiplexing of SPTS and MPTS video services and also PSI/SI table streams. A high-quality multiplexing module is ideal for an IP centric headend to create MPTS at the main headend for sending through DVB-ASI or IP interfaces.

Versatile functionality

The Luminato quad ASI output 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 module supports Standard Definition, High Definition, and 3D video in MPEG-2 and MPEG-4 AVC video formats and numerous audio formats.

Effective flexibility

The Luminato quad ASI output 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 performed on the quad ASI output modules, which enables low-cost applications even with partially equipped chassis, while having the performance scalability to fully equipped chassis.

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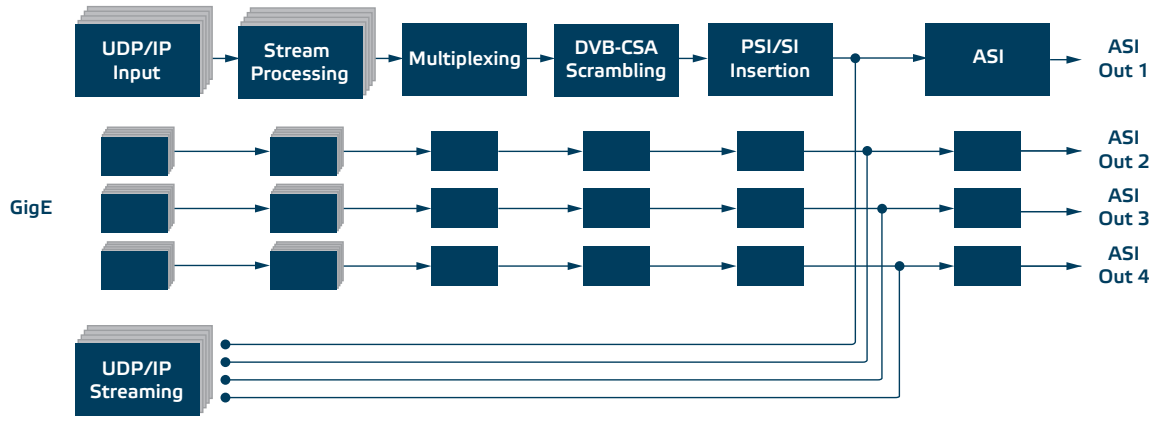
Embedded content protection

The quad ASI module has the optional capability to do DVB Common Scrambling Algorithm content protection. The embedded scrambling doesn't require any additional hardware and the user can freely select which services will be scrambled.

Efficiency and reliability

With the advanced transport stream processing, the operator can select the services and components which are relevant to his network. The Luminato will follow-up any changes on the stream to automatically readjust the processing to provide uninterrupted service. This will allow the operator to efficiently manage network capacity usage.



Block diagram, Quad ASI out

IP INPUTS	
Frame formats	UDP/IP, RTP/UDP/IP
TS packets per UDP frame	1…7
Max inputs streams per module	120
Dejittering buffersize	200 ms
MULTIPLEXERS	
Number of multiplexer per module	4
Max input services per multiplexer	64
Max input services per module	120
Max components per service	32
Max scrambled services per module	120 (LAS-D)
DVB ASI OUTPUT	
Impedance	75 Ω
Traffic mode	Variable/constant bitrate
Output speed for constant bitrate	Adjustable, 1…75 Mb/s
Maximum speed per interface	210 Mb/s 1 output in use 194 Mb/s 2 outputs in use 128 Mb/s 3 outputs in use 96 Mb/s 4 outputs in use

IP STREAMER OUTPUT OF MULTIPLEXER	
Framing format	UDP/IP, RTP/UDP/IP
Traffic type	Unicast or multicast
TS format	VBR, CBR
Max TS speed per streamer	75 Mb/s
Maximum speed total	384 Mb/s 768 Mb/s with dual streaming
GENERAL	
Power consumption	6.5 W
Supply voltages	24 V
Connectors, DVB-ASI out	BNC 75 Ω
Dimensions (h x w x d)*	20 mm x 109 mm x 253 mm
Weight	0.3 kg
Enclosure classification	IP21
Operating temperature range	-10...+55 ºC
Storage temperature range	-30...+70 ºC
Specification is met	0...+45 ºC

*) Dimensions excluding connectors and locking screws

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