

## EK3101 Multiplexer

### Outline:

This multiplexer is an embedding digital image communication product designed. It is also an advanced digital broadcasting TV system TS stream re-multiplexer based on PID packet exchanging technology. In addition, it is able to multiplex multiple input digital TS stream signals, analyzing input MPTS, insert EPG(Electronic Program Guide) 、CA(Conditional Access)into output TS stream, and data broadcasting. Multiplexing any single TS stream, the output are multiple program TS stream (MPTS) ; It can automatically generate SI/PSI information, having service, PID filtering, and re-multiplexing function. It can receive 8 routes ASI interface TS stream, and, according input passage, it also can real time insert SI(Service Information) Table, which is generated from outer SI server, into output code stream in order to realize EPG and data broadcasting value-add service. This multiplexer adopts minimum dimension, minimum cost design plan, providing TS stream re-multiplexing and processing, and other powerful functions for digital TV program transportation mission. This equipment also complies MPEG-2 transportation layer, and it is applicable in the field, such as TV station and digital image monitoring.





## Feature:

Fully comply ISO13818 and EN300 468 standard;  
Support MPEG-2 TS re-multiplexing;  
Multiplexing SPTS and MPTS code stream possible;  
Embedding structure, adopting hardware to realize multiplexing;  
Supporting up to 8 routes ASI input single program or multiple programs multiplexing;  
Fetching PSI/SI information from any ASI input possible;  
Filtering any program information and specified PID;  
Redefining PAT, PMT and other SI/PSI Table;  
Supporting PCR correction and PID remapping;  
SDT remapping function; NIT interpolation  
Input TS stream packet length self-adapting;  
Maximum output data rate reaching 108Mbps;  
The actual input bit rate of each route can be up to 270 Mbps, supporting burst mode;  
High precision PCR correction, average PCR jitter normally is kept between 20~60ns;  
PID filtering/PID redefining function, user can easily add/delete program, and modify program PID;  
LCD has abundant function. It is able to real-time monitor system status and set multiplexer parameters;  
Having 10M/100M Ethernet port, can remote control multiplexer running through PC;  
Having parameter storage function. Multiplexer can automatically load parameters when it is switch on and begins to multiplex.;  
Failure isolation function. If any input TS stream happens to fail, it would affect other input TS streams' multiplexing.;  
High bandwidth utility ratio. When input TS stream is constant, the utility ratio of bandwidth is over 99%;  
Bit rate automatically adapting 。 When input TS stream's bit rate varies (VBR), multiplexer can kept the total bit rate constant;  
Having PSI automatically generating function. Through, Ethernet port, user can easily expand services, such as EPG, SI etc. ;  
Automatically filtering empty packet in TS stream;  
Inserting user data possible;  
Supporting statistics multiplexing;  
Error code detection and bit rate monitoring function;  
Modular structure, flexible in upgrading and configuring;

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Managing communication between information system and SI server through Ethernet port;

Able to directly connect various digital transmission equipment, such as, SDH, PDH, digital MMDS, QPSK and QAM modulator;

Network upgrade possible.

LCD display, flexible in operation;

High reliable design, stable in running.

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**Specification :**

Input Interface	ASI	8 Routes( Maximum 270Mbps/Route)
Re-multiplexing		MPEG-2 TS stream re-multiplexing
		PID Remapping
		PCR Correction
		Automatically Generating PSI/SI Table
Output Interface	ASI	2 Routes
	Ethernet port	10/100M Ethernet port
Miscellaneous	Dimension	44mm-482mm-360mm
	Environment	0~45°C( Operation) ; -20~80°C( Storage)

