

MU01I Two Channels IP Output Multiplexer



Function:

12 Channels ASI Input 2 IP (2 Different IP Address or Port in 1 Gigabit Ethernet) Output TS Multiplexer.



Overview:

MU01I Two Channels IP Output Multiplexer is TS stream re-multiplexing equipment with IP output of digital broadcasting TV system, which is developed by our company with intellectual property rights. Based on the PID packet switching technology, it can multiplex the input multi-channel digital data stream signal and analyze the input MPTS. It is also able to interpolate EPG (Electronic Program Guide), CA (Conditional Access) and data broadcasting information into output data stream. This equipment can multiplex 12 channels TS stream, and output UDP program packet of multi-program TS stream. It has 2 channels independent Gigabit network interfaces, which respectively output separate multiplexed TS. The equipment can generate SI/PSI automatically and has the function of service/PID filtering and re-multiplexing. It receives the TS data stream from the 12 channels ASI interfaces. Through data input channel, it can interpolate data, like the SI table which is generated by external SI server, into output data stream in real time, making EPG, data broadcasting and other add-value business come true. It adopts the minimum size and the lowest price solution to re-multiplex transport stream. This equipment is used in digital TV programs transmitting. It complies with MPEG-2 transport layer specification, and can be applied to TV station and digital video monitoring occasions. The multiplexed programs will be played in the end with UDP packet receiving equipment.



Features:

Completely comply with ISO13818 and EN 300 468 standards

Support MPEG-2 transport stream re-multiplexing

Multiplex SPTS and MPTS data stream

Embedded structure, multiplexing with hardware

Support maximum 12 channels ASI input single-program or multi-program transport

stream multiplexing

Be able to extract any channel of inputting PSI/SI

Be able to filter program information and specify PID at will

Redefine PAT, PMT and other PSI/SI tables

User data can be inserted

Code rate monitoring function

Ethernet interface for the communication of management system and SI server

LCD, be flexible and convenient in operation

High reliability design, stable in running

Support PCR correction and PID re-mapping

Input TS packet length (188/204) adaptive

Regenerate PCR, less than 80ns PCR jitter

Actual output code rate: Max 800Mbps

The actual data rate supported by each input can be up to 216Mbps, supporting packet burst mode

High precision PCR correction, average PCR jitter is usually maintained at 20-60ns

Low latency, the delay of MPEG-2 video program is less than 100us

PID filtering/PID redefining function, which is convenient for subscriber to add/delete program and modify the program PID

LCD panel with extensive functions, which can monitor the system state and set the parameters of multiplexer in real time

Ethernet interface, which can be used to remotely control the running of multiplexer via PC, Human-machine interface

Parameters storage function. It can invoke the parameters automatically and start multiplexing when powered on

Fault isolation. If abnormal occurs in one input TS, it will not affect other input TS multiplexing.

Ultra-low latency, the time delay from multiplexer input to output is usually maintained at around 1ms.

High bandwidth utilization, it will exceed 99%, when the code rate of input TS is constant.

PSI auto generation, it is convenient to expand EPG, SI and other business through Ethernet.

Code rate adaptive

Be able to maintain the total output code rate constant.

Two channels independent Gigabit network interfaces, data output can be up to Gigabit.

Two channels independent IP address outputs.



Technical Specification:

Input Interface	ASI	12 Channels (maximum 216Mbps/channel)
Re-multiplexing		MPEG-2 TS re-multiplexing
		PID re-mapping (both auto and manual available)
		PCR Correction
		Automatically generating PSI/SI table
Output Interface	ASI	2 channels IP (one Gigabit network interface)
Output Code Rate	1~800Mbps	
Management Interface	Ethernet Interface	10/100M
	Dimension	44mm×482mm×410mm
Normal Attributes	Temperature	0~45°C (Operating); -20~80°C (Storage)
	Power Supply	220VAC±10%, 50Hz, 25W