

“In today’s fast-paced, market, Digital television is a new way to broadcast the future. Digital Set Top Boxes have become a key component allowing people to access many services offered by the cable operator”

ASI IP Converter AD-2730

The AD-2730 ASI IP Converter has eight ASI input interfaces, one 1000M/100M/10M adaptive network data interface, and one TCP/IP interface. The transport stream(TS) input from the ASI interface is demultiplexed and output as UDP package via the network data interface.

This device is design for head-end systems, to provide ASI to IP code stream forwarding.



Features

- Eight ASI inputs, 188/204 adaptive
- Bit rate range for each interface ASI data: 1-160Mbps
- Maximum 128 PID per each ASI input
- Bit rate range for IP output data: 1 ~ 800Mbps
- Maximum 7 188 TS UDP Load
- Each output pack, each package could be single program or multi-program
- Web-network management
- Automatic saving of the latest working status
- 1U standard case
- Error Alarm display
- Use LCD display
- Power-down memory function
- Parameter import/export function

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Technical specification

Hardware Interface

Items	Sub-items	Specification
Data Input Interface (ASI)	Interface	BNC
	Impedance	75Ω
	Channel data rate	270 Mbps
	Standard	DVB
	Signal level	800±50 mVp-p
Data Output Interface (RJ45)	Interface	RJ45
	Impedance	75Ω
	Channel data rate	1000Mbps
	Standard	IEEE 802.3 1000BASET
Management Interface (RJ45)	Interface	RJ45
	Impedance	75Ω
	Channel data rate	100Mbps
	Standard	IEEE 802.3 100BASET
Display panel	LCD display	
Power Interface	Switch	Rocker Switch

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Data Communication Interface

Major Term Function	Minor Term Function	Parameters
Data input interface	Physical interface	BNC
	Channel data rate	160 Mbps
Data output interface	Physical interface	RJ45
	Channel data rate	800Mbps
	Communication protocol	UDP
Management interface	Physical interface	RJ45
	Communication protocol	HTTP
	Data dynamic update and display	JavaScript, GoForms

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Code stream demultiplexing

Major Term Function	Minor Term Function	parameters
Input code stream processing	Overall data input bandwidth	160Mbps X 8
	The number of input PID	128 X 8
Data output interface	Physical Interface	RJ45
	Distinguish input TS	Destination Address and Port NO.
	The number of output TS	32
	Channel data rate	800Mbps
	Communication protocol	UDP
Input program information analysis	Program searching/refreshing time	10s
	Program searching method	PAT/SDT/PMT
	Table information that each TS should search	TSID , PAT version, SDT version, Original network ID, The number of programs
	Information that each program should search	Video PID, Video stream type, Audio PID, Audio stream type, PCRPID
Input rate statistics	Bit-rate real-time statistics	Update every 2 seconds
	Statistical parameters	Real-time overall input code rate
PAT/SDT generating	PAT/SDT generating principle	On users' selecting
	PAT/SDT generating cycle	On users' setting

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Device Management

Major Term Function	Minor Term Function	Parameters
User and login	User classification and authority	Administrator: can view the system status; operate program mapping setting; set the network parameters of input/output ports; add/delete subscriber and amend subscriber information Operator: view the system status; operate program mapping setting; Subscriber: can only view the system status
	The number of subscribers	Administrator: 1~2; Operator: 0~8; Subscriber: 0~8
	Subscriber information	User name: 2~32 bytes; Password: 6~16 bytes; Subscriber classification: 1 byte
	login	Login with the user name and password on the home page of Web administration page
User management	Add subscriber	Add new subscriber and set up the user name and classification
	Delete subscriber	Delete existing subscriber
	Amend subscriber information	Amend the information of existing subscribers

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Device Management

Parameters management	Start/pause	Start/pause
	Data port network parameters	Output IP address and subnet mask
	System log information display	Display the system log information in text
	Parameters leading-in/leading-out	leading-in/leading-out
Output TS management	The number of output TS	Depends on the ASI input condition; 8 TS at most
	Delete output TS	Delete an output TS
	Add output TS	Add an output TS. While adding an output TS, it is necessary to set the objective IP address and port NO. of the related receiving device.
Input program-tree search	Search time	Less than 10 seconds
	Searched program information	The number of programs, the PMT, ES PIN, ES TYPE, name and code rate of each program
Status display	Login status	The current user and time
	Network parameters	Network parameter display
	Input TS information and program information	Display the input TS information and program information
	Alarm/Error	Alarm/Error display