

# IP to ASI: 16ch™

Real Time Multichannel Bidirectional ASI to IP Gateway and IP to ASI Converter with Pro-MPEG FEC. Converts up to 16 DVB-ASI Transport Streams to 1 to 16 IP Transport Stream Outputs via 16 ASI Input Ports. Also Accepts up to 16 IP Transport Streams and Converts them to up to 16 DVB-ASI Transport Streams. Supports Unicast and Multicast. Supports PID Re-mapping, Multiplexing, Re-multiplexing, and EPG Data Insertion.



## Features

- ASI to IP and IP to ASI converter
- Converts one to 16 DVB-ASI transport streams to one to 16 IP transport stream outputs
- Receives one to 16 IP transport streams and converts them to one to 16 DVB-ASI transport streams
- ASI/IP mutual conversion with very little loss in video quality
- Supports 16 ASI inputs or outputs
- One Gigabit RJ45 port and one SFP (Small Form-factor Pluggable) port for input and output IP streams
- Additional one Gigabit RJ45 port and one SFP port for backup input and output
- Supports stream processing including PID re-mapping, multiplexing, re-multiplexing, and EPG data insertion
- Remotely manageable – supports Web-based GUI and client-based NMS
- Preserves all PSI and SI tables

## Applications

- Studio to Transmitter Links
- ENG (Electronic News Gathering) – Stream content to and from remote locations
- ASI input to Cable System
- Distance education/Corporate training
- Converting ASI out from encoders to IP, or vice versa

## Overview

ASI is the traditional physical interface between different devices exchanging transport streams. IP is the newer physical interface between devices. Traditionally IRD's output ASI or SDI. Today most IRD's output both ASI and IP.

The IP to ASI: 16ch has 16 DVB-ASI inputs and converts them to IP format (up to 16 streams). Conversely, it supports capture of 1-16 IP streams and converts them to DVB-ASI without stream modification since there is no transcoding.

Our IRD offers more than a physical conversion. It allows you to create groups of services that then can be sent as a package to different customers since it has a built in transport stream multiplexer.



Computer Modules, Inc.

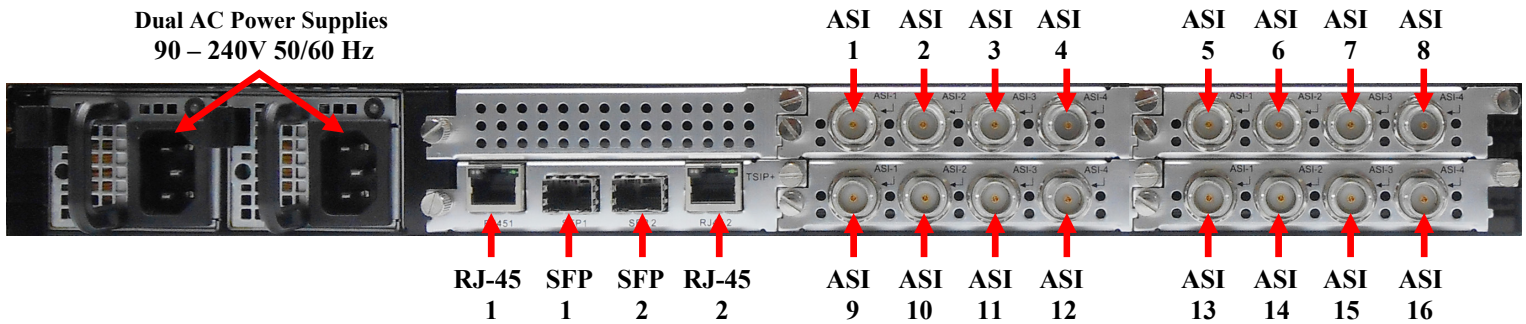
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## Rear View



## Specifications

### ASI/IP Mutual Conversion – IP

IP Inputs/Outputs:	2 x 100/1000 Base-T, RJ-45 2 x 1000 Base-X, SFP (Second RJ45 and SFP provide backup input and output)
Processing Capability:	One Gigabit input and One Gigabit output
Gigabit-16 IP Max. Input/Output:	16 input TS streams, 16 output TS streams
Total Transport Streams:	265 In, 256 Out (SPTS/MPTS)
Effective Bitrate:	Maximum 850 Mbps (total 2 ports)
Encapsulation Protocol:	MPEG-2 and MPEG-4 TS over UDP/RTP
Type:	Unicast and Multicast, MPTS and SPTS (IGMPv1, IGMPv2, IGMPv3)
Forward Error Correction:	Pro-MPEG FEC COP 3 Rev. 2
De-jittering:	PCR De-jittering
Backup:	TS-level, port-level backup
VLAN:	Supported

### ASI/IP Mutual Conversion – ASI

Interface:	16 BNC connectors (inputs or outputs), 75Ω
Packet Length:	188/204 Bytes (auto detection)
I/O Processing:	1 MPTS/SPTS per port, up to 100 Mbps per port
Maximum PIDs:	8192 (each port)
Input Mode:	Spread and burst (Variable bit rate)
Output Mode:	Spread (Constant bit rate)

### Management

Access:	Front panel controls, Web Interface
Remote Management:	Supports Web-based GUI and client-based NMS SNMP supported for system integration

### Physical & Power

Power Supplies:	Up to two per chassis Maximum 250W (fully loaded) AC 90 – 240V 50/60 Hz
Rack Space:	1 RU
Dimensions (W x H x D):	19.65 x 1.73 x 17.32 inches 499 x 44 x 440 millimeters
Weight:	22 lbs. (10 Kg)
Operating Temperature:	0°C to 50°C (32°-122° F)
Storage Temperature:	-10°C to 70°C (14°-158° F)
Relative Operating Humidity:	5 to 95%
Operating Altitude:	200 – 10000 AMSL

### Multiplexing

Tables Supported:	PSI Tables: PAT, PMT, CAT, TSdT SI Tables: NIT, SDT, EIT, TDT, TOT PSIP Tables: STT, NGT, TVCT, RTT, EIT, ETT, DCCT, DCCSCT
PID Processing:	Pass-through, Remapping, Filtering
EIT Processing:	RB Multiplexing and Pass-through
External Data:	EPG and SI Insertion

## Ordering Info

IP to ASI: XXch – XX available in groups of 4