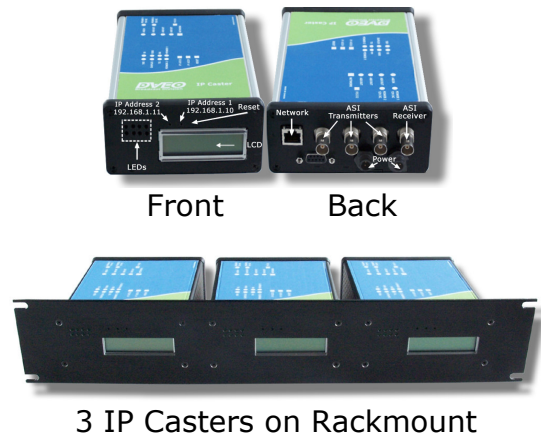


# IP Caster™ FD

**A Real Time Media Bridge That Delivers DVB-ASI Over Fiber or Copper IP Networks – Sends and Receives Both Single and Multi-Program MPEG - 2 SD and HD Transport Streams. Features Web-Based Remote Management and Pro-MPEG Code of Practice #3 (CoP3) Forward Error Correction (FEC).**



## Features

- Stand alone Full Duplex IP to ASI and ASI to IP converter
- Easy-to-use and configure IP gateway
- Converts HD MPEG-2 transport streams from DVB-ASI to IP in real time
- Receives HD MPEG-2 transport streams over Ethernet-based Internet Protocol (IP) networks and converts them to DVB-ASI
- Maximum rate of 195 Mbps per ASI channel
- Supports Pro-MPEG Code of Practice #3 (CoP3) Forward Error Correction (FEC)
- RTP (RFC 2250) encapsulation
- Supports IP Unicast, Multicast, UDP, RTP
- Network jitter correction
- Supports constant bit rate ASI output
- IP address assignment from DHCP server and static IP address. IP address also configurable through the web interface.
- Configuration for Time To Live (TTL) for Multicast
- Remote Web-based configuration management and remote firmware upgrade
- Saved configuration setting. No re-configuration needed after system reboot.
- Multiple units can be rack mounted if needed
- An alternative to dedicated satellite links –connects digital video equipment to computer networks
- eCos™ based software
- Inputs and Outputs:
  - One DVB-ASI input
  - Three mirrored DVB-ASI outputs
  - One Ethernet interface that supports 100 and 1000 Mbps connection in full duplex mode
  - Ethernet receiver with 1 IP input channel
  - Ethernet transmitter with 2 IP output channels

## Applications

- Streaming live video over IP
- ENG (Electronic News Gathering) – Stream content to and from remote locations
- Internet transmission of movie or video “dailies”
- Distance education/Corporate training

## Overview

DVEO's new streaming media bridge, the IP Caster™ FD, is a low cost appliance for anyone wishing to deliver their compressed HD content over fiber or copper IP networks. It simultaneously sends and receives MPEG-2 transport streams over IP. It is useful in many applications, such as delivery of compressed HD streams between TV stations and cable head ends. It can simultaneously convert MPEG-2 transport streams from DVB-ASI to IP in real time, and receive MPEG-2 transport streams over Ethernet-based Internet Protocol (IP) networks and convert them to DVB-ASI.

IP Caster FD sends and receives both single and multi-program MPEG-2 transport streams, up to 195 Mbps. It features web-based remote management and Pro-MPEG Code of Practice #3 (CoP3) Forward Error Correction (FEC).

With its compact size, the IP Caster can go anywhere and be remotely managed via its Web-based interface. This makes it ideal for larger systems with central management.

## Highlights

- “Broadcast” MPEG-2 Transport Streams over dedicated IP Networks
- Pro-MPEG Code of Practice #3 (CoP3) Forward Error Correction (FEC)
- Platform independent – no driver or any computer system required
- Remote Web-based management



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## Specifications

<b>Data Input/Output</b>	<b>DVB-ASI:</b> 75 Ohm BNC, Input/Output MPEG-2 Transport Stream 200 Kbps to 195 Mbps Data Rate per ASI channel ASI loopback <b>UDP – IP / RTP-IP:</b> RJ45 Ethernet port Input/Output UDP, RTP Packets 100 or 1000 Base-T, IP Loopback
<b>External Connections</b>	Remote Web-based management and control interface available from network connection
<b>Status LED Indicators</b>	Power, IP Rx, IP Tx, Duplex, 100, 1000
<b>DVB Standards</b>	<b>CENELEC EN50083-9: 1998</b> – Cable distribution systems for television, sound and interactive services – Part 9: Interfaces for CATV/SMATV headends and similar professional equipment for DVB MPEG-2 transport streams
<b>IP Standards</b>	<b>RFC 2250</b> – RTP Payload Format for MPEG-1/MPEG-2 video
<b>Dimensions</b>	
	Width: 4.37" (157 mm)
	Length: 6.19" (157 mm)
	Thickness: 1.75" (45 mm)
<b>Weight</b>	14.3 oz. (406 g)
<b>Operating Temperature</b>	32 to 131° F (0 to 55° C)
<b>Operating Humidity</b>	To 90% Non-condensing relative humidity
<b>Power Supply</b>	External 12V DC redundant power supplies (optional)
<b>Bus Interface</b>	Stand Alone

## Block Diagram



## Ordering Information

IP Caster FD – Sold on 2U Rackmount  
 Optional second power supply

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## Capabilities

**SPTS and MPTS Support** – Single Program Transport Stream (SPTS) or Multi Program Transport Stream (MPTS). Maximum streaming rate of 195 Mbps per ASI channel. Maximum aggregate streaming rate of 390 Mbps.

**Support for User Datagram Protocol (UDP) and Real Time Protocol (RTP)**

**Configuration of receive port and destination port/address**

**LCD Display** – Provides additional information

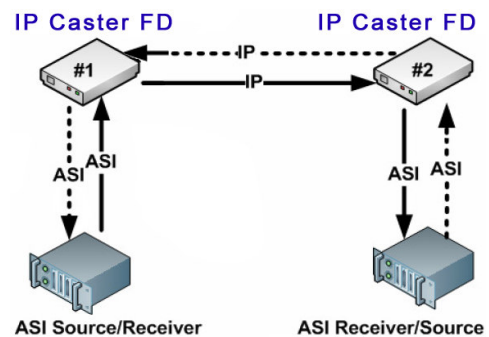
**Web-based Reset** – This reset forces the parameters back to initial factory default settings.

**Ships with Rack Mount**

## GUI



## Application Example



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