EtherCast ™ ASI-Pro

Compact, ASI-to-IP and IP-to-ASI gateway

EtherCast ASI-Pro is a compact ASI-to-IP gateway that makes it fast, easy, and affordable to transport DVB-ASI video from remote sites - such as small TV studios, security hot spots, traffic observation points, or weather stations - to central locations.

Today, setting up video transport links to remote sites is costly and time-consuming. The low-latency, high-bandwidth channels needed to carry ASI streams of MPEG-encoded SD or HD video dictate the use of either a satellite link, an optical service on a fiber backbone, or a point-to-point microwave radio link.

Pleora's ASI-Pro simplifies and cost-reduces links to remote sites by allowing the video to stream reliably over economical IP networks. One side of the palm-sized ASI-Pro plugs into coax from an MPEG-to-ASI encoder, the other to an Ethernet cable. After a few clicks on a simple web-based interface, the unit is ready to go.
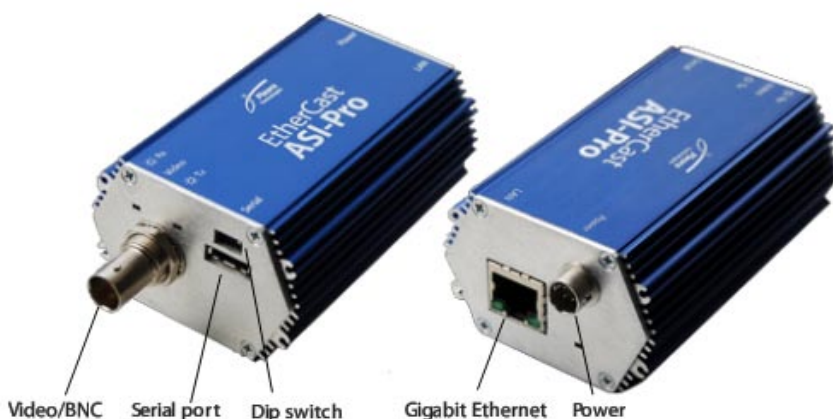
Applications

- **Remote site interconnect - wired**
  Works seamlessly with existing MPEG encoders

- **Remote site interconnect - wireless**
  Ideal for use with fixed wireless IP systems

At the central location - such as a production house, play-out center, satellite earth station or surveillance/security office - the video can be converted back to ASI by a second ASI-Pro or left as-is for further processing. The unit is bidirectional.

For truly remote sites, where basic Ethernet services aren't available, the ASI-Pro can be used in conjunction with a low-cost wireless IP transmission system. An inexpensive way to set up point-to-point IP connections between two sites.

The ASI-Pro's exceptional jitter control, lossless data transfer, and advanced error correction standards ensure pristine image quality. Multicast transmission is fully supported, enabling the same video stream to be distributed simultaneously to multiple destinations. The ASI-Pro includes features like SMPTE-2022 / COP#3, FEC, out-of-band control, SNMPv2, and is available as a standalone device or an OEM board.

EtherCast engines are based on the field-proven IP engine technology offered in Pleora's world-leading line of iPORT™ products for medical, military, and manufacturing applications.

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Video/BNC   Serial port   Dip switch   Gigabit Ethernet   Power

Product Specifications

VIDEO PROCESSING

Type
- DVB-ASI
  (TR 101 290 (ETR290) Compliant)
- Pro-MPEG COP#3 Encapsulation
- Pro-MPEG COP#3 FEC

NETWORK INTERFACES AND PROTOCOLS

Connector types
- 10/100/1000 Base-T Ethernet port
- BNC (DVB-ASI)

Protocols
- IEEE802.3 Ethernet
- IPv4
- IPv6 ready
- ARP
- ICMP
- IGMPv2
- RTP
- UDP

MTU Size
- 1500 bytes

CHARACTERISTICS

Size
- Box: 81 mm x 59 mm x 40 mm

Operating temperature
- 0˚ C to +50˚ C
- Humidity: 10 to 90% non-condensing

Power consumption
- Less than 2.5 W

FEATURES

Wide range of DVB-ASI data rates
- From 100 Kb/s - 213.7 Mb/s

DVB-ASI packet size auto-detect
- Configuration-free 188-byte or 204-byte MPEG packet detection

Configurable as receiver or transmitter
- One model accommodates a range of network Rx/Tx requirements

Hot pluggable
- Fast, automatic recovery from cable disconnects or system faults

Firmware updates
- Remote update over Ethernet

Jitter control
- Low and adjustable latency

MANAGEMENT

Out-of-band
- RS232/422/485

Inband
- 1000 Base-T Ethernet (GigE)

Features
- HTTP Web-based server
- SNMPv2
- Static IP configuration
- Statistics reports

Supported Management Information Bases (MIBs)
- SNMPv2-MIB (RFC 1213 & RFC 1907)
- RTP-MIB (RFC 3550)
- ECPro (EtherCast Pro) MIB

Connector types
- Hirose ST40-10P (RS232/422/485)

Note: specifications are subject to change without notice

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