D2Cast is the solution to reliably deliver your ASI transport stream over IP and back. Each D2Cast gateway can encapsulate just the ASI services you desire to send over IP while simultaneously receiving an IP stream for ASI output. With a pair of standalone D2Cast units, you can seamlessly send and receive up to 213Mbps of MPEG-2 or MPEG-4 services over IP with custom channel branding.

The applications for D2Cast are endless including contribution of live remote events and distribution of programs to headends or broadcast towers with a confidence return feed for central monitoring.

**Applications**

**Live Production Contribution:** Link remote studios, stadiums and venues to a production control room over IP with a live broadcast return feed for remote monitoring.

**Terrestrial Broadcast Distribution:** Distribute program services to one or more broadcast sites with custom channel branding and a return confidence feed for central monitoring.

**Satellite Distribution:** Multicast transport stream services over IP to multiple locations and rebrand each channel at the downlink site.

**Key Benefits**

**Simultaneously Send & Receive Digital Video:** Save money with a full bidirectional transport stream over IP (TSoIP) link using only two D2Cast gateways. Each standalone unit can simultaneously send and receive up to 213Mbps of MPEG-2 or MPEG-4 services over IP to deliver the wireline ASI speed you need.

**Easily Rebrand Channels:** Control the PSIP/SI branding of all your send and receive service channels with advanced ATSC table processing required for terrestrial broadcast.

**Save IP Bandwidth:** You can IP encapsulate just the ASI services you want to send with the unique transport stream configuration feature built into the D2Cast. Save precious IP bandwidth by removing unwanted elementary streams like secondary audio or even drop complete programs.

**Easily Mix ASI and GIGE Infrastructure:** The D2Cast Gateway provides an easy way to deliver your ASI transport stream services over a standard gigabit Ethernet network. Whether you are bridging two ASI plants or just leveraging an IP connection to a remote location, the D2Cast delivers the reliability you expect from D2D Technologies.

**Features**

- Bidirectional ASI transport stream to IP for simultaneous send and receive.
- ASI to IP (TSoIP) conversion for transporting digital video content over IP networks.
- IP (TSoIP) to ASI conversion provides a full duplex network video gateway.
- Unicast or Multicast IP send with network Gateway capability.
- Network jitter correction and adaptation for transport of MPEG TS over IP.
- Over 400Mbps throughput.
- Independent Data and Control IP network ports.
- IGMP v2/v3 support.
- Carrier grade reliability in a compact form factor design.
ASI Transport Stream Over IP Gateway

Specifications

ASI Input
- One ASI BNC female inputs, 75Ω
- 213 Mbps input
- Receive MPTS and SPTS with service filtering

ASI Output
- One ASI BNC output
- Output up to 213 Mbps constant bit rate
- Supports MPTS or SPTS
- PCR regeneration

SMPTE 310 Output (Option)
- One SMPTE 310 BNC output at 19.39Mbps
- Supports MPTS or SPTS
- PCR regeneration

Gigabit Ethernet
- One independent Gigabit Ethernet (GIGE), RJ45
- 10/100/1000Base-T auto-sensing
- Half and full duplex
- Maximum aggregate data rate: 400Mbps with up to 64 services.
- Input and output unique SPTS and MPTS
- IP/UDP and IP/UDP/RTP multicast or unicast Transmission (IGMP)
- PCR regeneration

Management
- Control over Ethernet 100BaseT, RJ45

Interoperability
- Video Formats: Transport stream MPEG-2 SD/HD and MPEG-4 (AVC) SD/HD
- Audio Formats: MPEG-1 Layer II and Dolby AC-3 service type control

MPEG Processing
- Service and component PID filtering
- Advanced component/service/TS analysis and bit rate measurements
- Pass-through of scrambled services on TS level.
- Local and remote logs

PSIP Processing
- Pass-through and dynamic regeneration of PSIP tables.
- PSIP Tables Supported: PAT, PMT, CAT, SDT, NIT, EIT, ETT
- ATSC Tables Supported: MGT, VCT, STT, RTT, EIT, ETT

Transport Stream Processing
- PCR de-jittering and re-stamping
- PAT/PMT computation band insertion
- Synchronization of data and video
- Configurable packet format of 188 or 204 bytes per packet

Physical Characteristics
- Size: 1.75” high x 9.80” wide x 5.25” deep

Environmental Conditions
- Convection cooled (no fans)
- Operating Temperature: 5°C to +40°C
- Storage Temperature: -5°C to +45°C
- Maximum Humidity: 90% (non-condensing)

Ordering Information
- D2Cast: Transport Stream to IP Gateway with 1 ASI input and 1 ASI output

Specifications and product availability are subject to change without notice. D2D Technologies™ and D2Cast™ are trademarks of D2D Technologies, LLC. D2Cast.Rev.2.2. ©2011 D2D Technologies, LLC. All rights reserved.

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