The D2iMux is a cost effective HD/SD MPEG digital video IP stream multiplexer that transforms services from ASI and Gigabit Ethernet into a tailored transport stream ready for distribution over ASI, IP and SMPTE-310. Service components from any input can be used to create each output for true flexibility in building your own MPEG-2 or MPEG-4 services.

Once the new services are defined, the D2iMux faithfully handles all of the table processing to ensure a pristine output. With the D2iMux, you get essential control in a compact multiplexer for reliable contribution of live events, production and content delivery with distribution capability for broadcast, cable and IPTV.

Key Benefits

**Optimize Transport Bandwidth:** Get the most out of your transport by creating a Multiple Program Transport Stream (MPTS) from all of the service inputs. Satisfy demanding bandwidth constraints by removing unwanted elementary streams like secondary audio or even drop complete programs.

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

**Value you can count on:** The D2iMux delivers a strong Return on Investment (ROI) in a compact multiplexer with proven reliability. In just minutes, you can create a custom multiplex ready for the most demanding contribution and distribution requirements.

Features

- PSIP table management, service filtering and remapping.
- Service aggregation and local program insertion.
- Transport Stream (TS) grooming and remultiplexing of any service received over ASI or Gigabit Ethernet.
- IP output for transporting digital video content over IP networks.
- Converts up to 8 IP Streams to ASI providing a full duplex network video gateway.
- Network jitter correction and adaptation for transport of MPEG TS over IP.

Applications

**Contribution:** Dynamically adjust services or easily load profiles to customize the ASI or IP feeds and multiplexing functionality for live events, live production, post production and content delivery playout.

**Distribution:** Easily aggregate services from many sources and local programming with service processing and preparation for transmission over satellite uplinks, terrestrial broadcast, cable and IPTV.
Specifications

**ASI Inputs**
- Two ASI BNC female inputs, 75Ω
- 213 Mbps per input
- Receive MPTS and SPTS with service filtering

**ASI Outputs**
- Two independent ASI BNC outputs
- Output up to 213 Mbps constant bit rate
- Programmable unique MPTS or SPTS
- PCR regeneration

**Gigabit Ethernet**
- One independent Gigabit Ethernet (GIGE), RJ45
- 1000Base-T
- Half and full duplex
- Combines up to 8 unique IP streams.
- Input and output unique SPTS and MPTS
- IP/UDP and IP/UDP/RTP multicast or unicast Transmission (IGMP)
- PCR regeneration

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

**Management**
- Control over Ethernet 100BaseT, RJ45
- D2Manage control application for MS Windows XP, 2003, 2008, Vista, and 7

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

**MPEG Processing**
- Service and component PID filtering and remapping
- 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 of dynamic PSIP tables and regeneration of static PSIP.
- PSIP Tables Supported: PAT, PMT, CAT, SDT, NIT
- ATSC Tables Supported: MGT, VCT, STT, RRT
- Please see our D2Guide product for generation of dynamic PSIP

**Multiplexing**
- Service and component remapping (route any input to any output port)
- Each output (ASI, GIGE, SMPTE-310) is programmed uniquely
- PCR de-jittering and re-stamping
- PAT/PMT computation and 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
- Power: 110V/220V, 50/60Hz
- Single external power supply

**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**
- D2iMux 5400: IP Stream Multiplexer supporting up to 4 unique input streams
- D2iMux 5401: IP Stream Multiplexer supporting up to 4 unique input steams and 1 SMPTE-310 output

Specifications and product availability are subject to change without notice.

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