

The D2Mux is a cost effective HD/SD MPEG digital video 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 D2Mux faithfully handles all of the table processing to ensure a pristine output. With the D2Mux, 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.

### 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 payout.

**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.

### Key Benefits

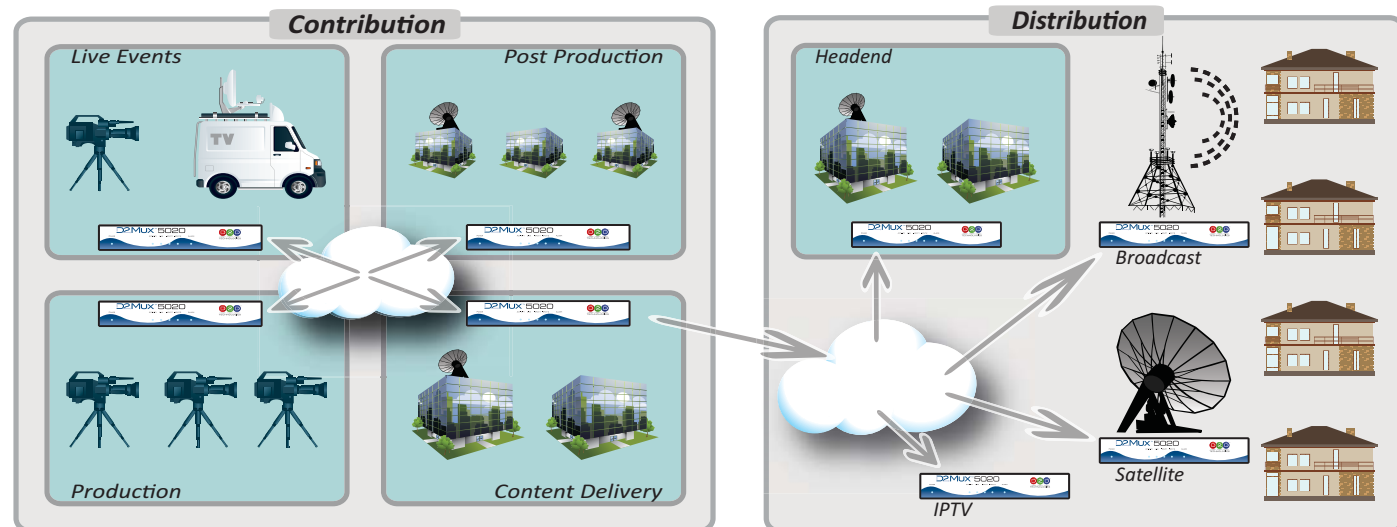
**Optimize Transport Bandwidth:** Get the most out of your transport by creating a Multiple Program Transport Stream (MPTS) from all of the service inputs. Satisfy demanding bandwidth constraints by removing unwanted elementary streams like secondary audio or even drop complete programs.

**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 D2Mux 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.
- 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.
- Network jitter correction and adaptation for transport of MPEG TS over IP.



### 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

#### SMPTTE 310 Output (Option)

- One SMPTTE 310 BNC output at 19.39Mbps
- Programmable unique MPTS or SPTS
- PCR regeneration

#### Gigabit Ethernet (Option)

- One independent Gigabit Ethernet (GIGE), RJ45
- 10/100/1000Base-T auto-sensing
- Half and full duplex
- Maximum aggregate data rate: 400Mbps with up to 200 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
- D2Mux 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 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 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

#### Multiplexing

- Service and component remapping (route any input to any output port)
- Each output (ASI, GIGE, SMPTTE-310) is programmed uniquely
- 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
- Power: 110V/220V, 50/60Hz.  
Single external power supply.

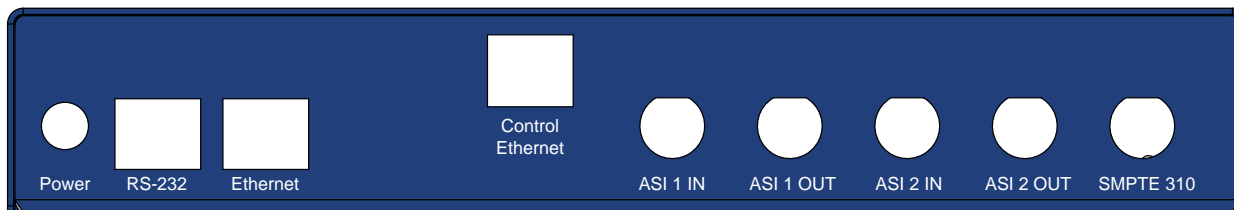
#### Environmental Conditions

- 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

- D2Mux 5020: Multiplexer with 2 ASI inputs and 2 ASI outputs
- D2Mux 5020i: Multiplexer with 2 ASI inputs, 2 ASI outputs and GIGE.
- D2Mux 5021: Multiplexer with 2 ASI inputs, 2 ASI outputs and 1 SMPTTE 310 output
- D2Mux 5021i: Multiplexer with 2 ASI inputs, 2 ASI outputs, 1 SMPTTE 310 output and GIGE

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