

The D2Mux OG-6000 for openGear® is a powerful MPEG video multiplexer and IP network gateway that creates digital video transport streams from any service component over ASI and Gigabit Ethernet. Advanced DTV channel branding, video processing and optional PSIP data insertion serve to create a channel lineup that viewers are looking for.

Each D2Mux OG-6000 card can easily merge local content with national channels and remove unwanted elementary streams like secondary audio to meet demanding bandwidth constraints. As a full duplex IP network gateway, you can also send and receive multiple services over IP with Forward Error Correction to ensure that content is properly received. Broadcasters, cable and IPTV operators can now create the digital services needed with an openGear system.

Applications

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.

Regionalization: Regionalize multiplexes at head-ends and transmitter sites with service add/drop and advanced channel branding.

Key Benefits

Easily Rebrand Channels with EPG: Control the PSIP/SI branding of all your channels with advanced ATSC or DVB table processing and insert the necessary guide information so your customer can find the programs they want.

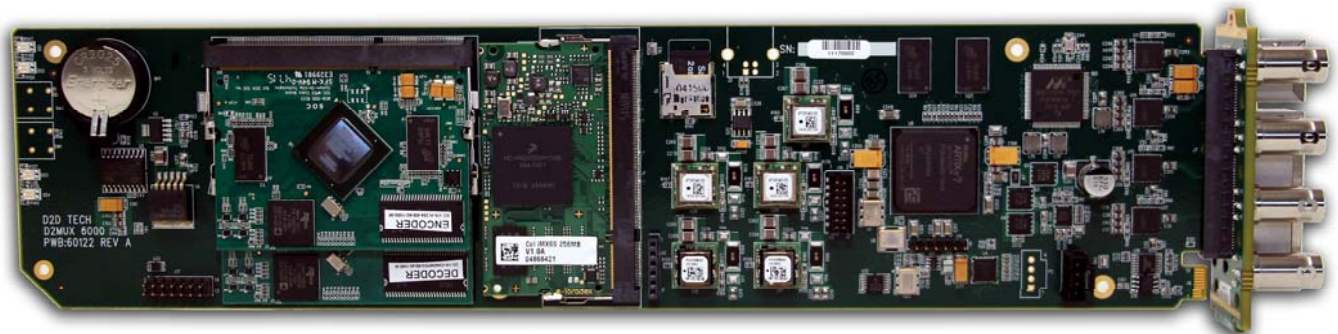
Optimize Transport Bandwidth: Get the most out of your transport by creating up to 8 independent Multiple Program Transport Streams (MPTS) from all of the service inputs. Satisfy demanding bandwidth constraints by removing unwanted elementary streams like secondary audio or even drop complete programs.

Full Duplex IP Video Gateway: The D2Mux can remultiplex up to 8 streams from ASI or GigE and create 8 independent IP output streams with Forward Error Correction (FEC) compliant with SMTE 2022-1/2.

Emergency Alert Insertion: Quickly inform viewers of emergencies by inserting EAS into all the programs of your ATSC digital transport stream with the optional D2Alert.

Features

- Transport Stream (TS) grooming and remultiplexing of up to 8 streams received over ASI or Gigabit Ethernet.
- IP encapsulation of up to 8 independent output streams on a Gigabit Ethernet link.
- DVB to ATSC table conversion from any input to any output stream.
- Configurable Forward Error Correction (FEC) compliant to SMPTE 2022-1/2.
- 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 with up to 4 independent ASI outputs.
- Network jitter correction and adaptation for transport of MPEG TSoIP.
- openGear 3.0 compatible with up to 10 cards in a 2RU frame.



Specifications

ASI Inputs

- Up to four ASI inputs, 75Ω
- 213 Mbps per input
- Receive MPTS and SPTS with service filtering

ASI Outputs

- Up to four ASI outputs, 75Ω
Output up to 213 Mbps constant bit rate
- Programmable unique MPTS or SPTS
- PCR regeneration

Gigabit Ethernet (TSoIP)

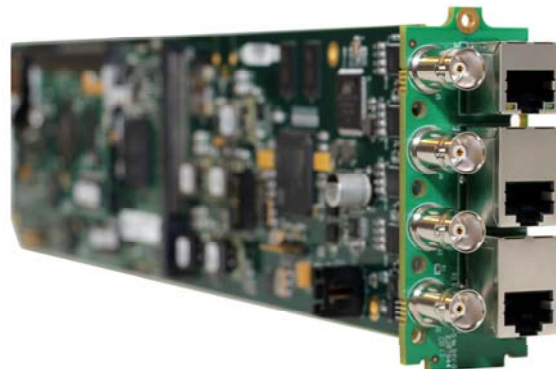
- Two independent Gigabit Ethernet (GigE), RJ45
- 10/100/1000Base-T auto-sensing
- Half and full duplex

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

Management

- Dedicated control over Ethernet (10/100), RJ45
- D2Flex Control browser interface
- SNMP remote monitoring with configurable traps



Multiplexing

- Service and component PID tracking, filtering and remapping (route any input to any output port)
- Input and output unique SPTS and MPTS
- Each output (ASI, GigE) is uniquely programmed
- PCR re-stamping
- Configurable packet format of 188 or 204 bytes per packet

Payload Processing

- Forward Error Correction (FEC) compliant to SMPTE 2022-1/2
- Maximum aggregate data rate: 500Mbps with up to 32 services
- Multicast: IGMP v1, IGMP v2, IP/UDP and IP/UDP/RTP multicast or unicast.

Table Processing

- Advanced component/service/TS analysis and bit rate measurements
- MPEG/PSI Tables: PAT, PMT, CAT
- ATSC/PSIP Tables: MGT, VCT, STT, RTT, EIT, ETT
- DVB/SI Tables: NIT, SDT, TDT, EIT

PSIP Processing

- Pass-through and dynamic regeneration of PSIP tables.
- EPG Guide Services (D2Guide Option):
 - Gracenote (TMS)
 - BIM PSIP Data Service (Titan TV)
 - Spreadsheet

openGear®

- Compatibility: openGear, openGear 3.0
- Capacity: 10 cards in a 2RU frame

Environmental Conditions

- Operating Temperature: 5°C to +40°C
- Storage Temperature: -5°C to +45°C
- Relative Humidity: 10 to 90% (non-condensing)

Ordering Information

- D2Mux OG-6318: Multiplexer with 8 input and output streams, 3 ASI inputs and 1 ASI output
- D2Mux OG-6408: Multiplexer with 8 input and output streams and 4 ASI inputs
- D2Mux OG-6048: Multiplexer with 8 input and output streams and 4 ASI outputs
- D2Flex OG-6311: Multiplexer with 1 input and output stream, 3 ASI inputs and 1 ASI outputs
- D2Alert: Optional D2Alert for insertion of Emergency Alert System in transport stream.
- D2Guide: Optional D2Guide dynamic PSIP Guide generation from Titan TV or spreadsheet.

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