

Flexi Server™ Player/Muxer

Transport stream playout server with built-in multiplexer. Gig/E or ASI input and flexible outputs. Combines or uncombines up to 8 independent output transport streams. Inputs can come from IP, ASI, or built in storage. Optional HDMI, component, and composite input. Outputs include IP, ASI, and DTV modulated RF. Distributes computer screens, Internet content, audio and video over cable, satellite, and terrestrial broadcast mediums which utilize MPEG-2 transport streams. Ideal for hotels, restaurants, universities, stadiums, etc.



Features

- Multi input/Multi output statistical multiplexer
 - Demultiplexer/Remultiplexer
 - Program filter and mapping (“cherry picker”)
 - PID filter and mapping
 - PSI (PAT/PMT) signalling
 - ATSC, DVB-T, ISDB-T signalling including user definable channel labelling descriptors
 - PSI, ATSC, DVB-T, ISDB-T signal merging
 - PCR dejittering and restamping
 - Rate smoothing
 - Time stamping
 - TS CBR and VBR
- 2x HD, 4x SD Encoder/transcoder – H.264 MPEG-2 MP@ML
- Multichannel HD streamer with 30 GB storage
- Data Carousels for FlexDM™ devices, etc.
- Generates L-Bar signage channels with and without RX-receivers
- Controls power, channel, signage, alerts, and more on one or many RX-50 enabled TVs
- Cable Network Monitoring
 - Channel Map changes/dropouts
 - Signalling errors
 - PID changes
- Full motion video front panel displays any multiplexer input or output
- Web-based management
- Features SMPTE 2022 Pro-MPEG FEC
- Options: Quad modulator, quad tuner, ASI input/ output, HDMI/Composite/Component video capture

Applications

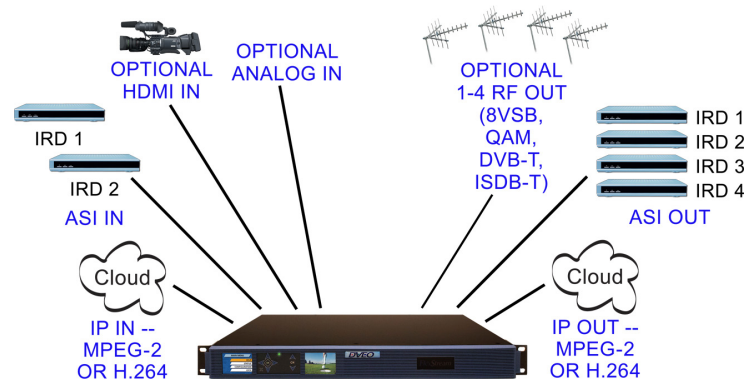
- Hotels, restaurants, bars
- Public Education & Government
- Stadiums
- Classrooms and Lecture halls
- Datacasting
- Tournament TV
- Public Access TV

Overview

The Flexi Server is the newest member of DVEO®’s multiplexer family. This multi-input/multi-output NxM transport stream multiplexer can process up to 8 independent output transport streams. The 1RU form factor supports 4 expansion modules providing a wide variety of multiplexer input sources and output TS targets. Video inputs include HDMI, Component, Composite, HD-SDI, DTV tuners, ASI, and IPTV. Outputs include IPTV, ASI, and DTV modulated RF. In addition, this unit also supports many special features such as the integrated video streamer, full motion video front panel, cable network monitoring, L-Bar signage, and display controls.

Choose from one of our preconfigured units, or contact DVEO® to create a customized version.

Block Diagram



Computer Modules, Inc.

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Rear Panel



Ordering Information

Flexi Server

- 4 x GigE ports for IPTV/TSoIP input/outputs – standard equipment
 - IPTV, TSoIP, RTSP inputs; IPTV, TSoIP outputs – SMPTE 2022 Pro-MPEG FEC

Flexi Server-8M

- 4 x GigE ports for IPTV/TSoIP input/outputs – standard equipment
 - IPTV, IPTV, TSoIP, RTSP inputs; IPTV, TSoIP outputs - SMPTE 2022 Pro-MPEG FEC
- 2 x PN: WPE-PCIE4XMOD-215 - Quad ATSC US Cable TV, ISDB-T, DVB-T modulator
 - 8 frequency agile, modulation agile, UHF DTV modulators
- 1 x PN: WPE-TNRCRD-204 - ATSC tuner/Cable TV tuner monitor

Flexi Server-HY

- 4 x GigE ports for IPTV/TSoIP input/outputs – standard equipment
 - IPTV, TSoIP, RTSP inputs; IPTV, TSoIP outputs – SMPTE 2022 Pro-MPEG FEC
- 2 x PN: WPE-PCIEHDMI-220 - Low Profile HDMI, S-Video, Component Video, Composite Video, Stereo Audio, Capture.
- 1 x PN: WPE-PCIE4XATSC-217 – Quad ATSC tuner (can substitute quad DVB-T or ISDB-T)
- 2 x PN: WPE-PCIE4XMOD-215 - Quad ATSC US Cable TV, ISDB-T, DVB-T modulator
 - 4 frequency agile, modulation agile, UHF DTV modulators
- 1 x PN: WPE-TNRCRD-204 - ATSC tuner/Cable TV tuner monitor

Custom Build Options

- Single Capture HDMI, S-Video, Component Video, Composite Video, Stereo Audio.
- Dual Capture HDMI
- Single ASI Out
- Single ASI In/ASI Out
- Dual ASI In/ASI Out
- Single HD-SDI input
- Quad ISDB-T tuner
- Quad DVB-T tuner
- Quad ATSC tuner
- Quad ATSC, US Cable TV, ISDB-T, DVB-T modulator
- Cable TV Monitor Tuner – ATSC, US Cable TV

Options

Quad Modulator Option

- ATSC – North America Terrestrial
- QAM-B North America Cable
- DVB-T Europe Terrestrial
- DVB-C Cable
- ISDB-T Japan & Latin America Terrestrial
- ISDB-C Japan Cable
- 4 independent channels
- Frequency Range: 300 - 860 MHz (VHF/UHF)
- Configurable Bandwidth: 6, 7 or 8 MHz
- Modulation: 8VSB, BPSK, QPSK, OFDM, 16-256 QAM
- Output Level: -20 dBm to 0 dBm (1mW)
- Carrier Suppression: > 35 dB
- Adjacent Channel Leakage Ratio (ACLR): > 40 dBc
- Modulation Error Ratio (MER): > 40dB

Quad Tuner Option

- ATSC 8VSB
- ISDB-T
- DVB-T

ASI Input/Output Option

- Compatible with DVEO ASI PCIe cards

Specifications

Standard Inputs

4x GigE
2x USB 3.0 Host
2x low profile PCIe X1 Gen II
2x full profile PCIe x1 Gen II
1x Mini PCIe USB 2.0
mSATA up to 1TB

Administration

Front Panel Configuration:	Management LAN network connection QVGA. H.264 & MPEG2 decode and scaling
Front Panel Video:	Front panel controls with video monitor, Web interface

CPU and Operating System

CPU:	AMD Embedded G-Series SOC Platform, Quad “Jaguar” core @ 2.0 GHz
GPU:	DVEO embedded Linux® on SSD
RAM:	4GB, DDR3 ECC, 1600

Physical & Power

Size – 1 RU high (WxDxH):	17.41 x 12.92 x 1.72 inches (442.2 x 328.2 x 44 mm)
Input Voltage:	100- 240 VAC, 50-60 Hz
Power:	100 watts
Weight:	4.08 kg (9 lbs) without options
Shipping Weight:	Configuration dependent
Operating Temperature:	0° - 45°C (32°-113°F)
Non-operating Humidity:	10 – 95% RH, non-condensing
Cooling:	Fan cooled. Positive pressure, ~20 cfm air flow front to back.
Rack mounting:	Mounting ears provided
Cabling:	Power cord included, others provided with optional hardware
Weight:	15 lbs. (6.8 kg)
Conformities:	TBD



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