

# MSP-310-10G

## SDI Video Optical Transport 6 Port TDM Multiplexer



### Benefits and Features

- **Uncompressed high quality low latency SDI-3G/HD/SD & DVB-ASI**
- **Up to 6 ports and 10Gbps per wavelength**
- **6 Independent bidirectional video streams**
- **Mux / Demux**
- **3 x SDI-3G, 6 x SDI-HD/SD**
- **Single 10G SFP+, optional CWDM/DWDM**
- **Point to Point configuration**
- **SD-SDI (SMPTE 259M)**
- **HD-SDI (SMPTE 292M)**
- **3G-SDI (SMPTE 424M)**
- **1G ETHERNET service**
- **Remote manageable via WEB interface**
- **Local management via front panel LCD and CLI**
- **External Clock input**
- **Input Cable Equalization & Reclocker**
- **1 RU height**
- **External Reference Clock**
- **Replaceable Fans**
- **Redundant power supplies**

### Description

IPITEK's MSP-310 is a new generation multi-service transport unit. It is designed to meet the high demand from customers for both data and video transport. MSP-310 can aggregate 6 uncompressed or compressed ASI video services with Ethernet Data service, and transport them over high speed optical trunk. All services share the overall 10 Gb/s trunk bandwidth with video priority higher than Ethernet, hence greatly increased the network utilization.

MSP-310 is a true bi-directional transport unit in 1RU compact design. Each unit comes with standard Mux and Demux, or Encoder and Decoder functions. The standard and compact design can benefit customers with cost effective solution, ease of network troubleshooting and deployment, reduced rack space and less spare units.

MSP-310 adopted sophisticated timing synchronization technology to maintain high timing performance for each independent video stream across network.

Having inherited all the software features from previous MSP-220 series, MSP-310 allows customer to manage the unit via CLI interface, or remotely via Web interface. Through those interfaces, customers can enable/disable services, monitor service input and output status, read log file, or set up trap destination for receiving SNMP traps. Beside the management interfaces, front panel LCD also give customers direct indication of the system status.

# Specifications

## Network Interfaces

### Fiber Interfaces:

1 x SFP+ 10G Fiber Interface  
SFP module sold separate:  
850,1310,1550,CWDM,DWDM up to 80km

## Client Service/Interfaces

### Video input ports :

I/O: 6 Inputs  
Reclocker & Cable Equalization: up to 300m  
Connector: 75 ohm BNC

### Video output ports:

I/O: 6 outputs  
Connector: 75 ohm BNC  
Timed to video source or external clock input

### Standards:

3G-SDI (SMPTE 424M),  
HD-SDI (SMPTE 292M),  
SD-SDI (SMPTE 259M),  
DVB-ASI

**Timing Jitter (SD/HD/3G):** 0.2 / 1.0 / 2.0 UI

**Alignment Jitter (SD/HD/3G):** 0.2 / 0.2 / 0.3 UI

**Ethernet Services:** 1x GE Ethernet Port (RJ45)

### Management ports:

Ethernet : Fast Ethernet, RJ45 (web page)  
USB type B (CLI debug port)

## Environmental

Operating temperature: 0° to 50°C  
Storage temperature: -10° to +75°C  
Relative humidity: 10 to 90%

### Power

Dual power inputs:  
AC 100-127/200-240 50/60Hz 6A,  
DC 48V

### Physical

1.75 " high x 19" wide x 10" deep

## Provisioning and Monitoring

Local configuration and status monitoring via front panel LCD and CLI.  
Remote Web based management via RJ45 Fast Ethernet

## Ordering Information:

MSP-310 Multi Service Video Aggregation Fiber Optic Trunk: 03-7334-0002  
Pluggable Optics Module DWDM (ch15-61) 80km Ch# xx: 03-7301-9xx1

MSP-310 Multi Service Video Aggregation Coax SDI Trunk: 03-7334-0001



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