

MSP-320-10G

**SDI Video Optical Transport
6 Port TDM Multiplexer
Dual 10G SFP+ Fiber Protection**



Benefits and Features

- **6 port SDI Video TDM multiplexer**
- **Uncompressed high quality low latency SDI-3G/HD/SD & DVB-ASI**
- **Up to 6 ports and 10Gbps per wavelength**
- **Independent bidirectional video streams**
- **Add/Drop/Pass cross connects**
- **Dual 10G SFP+ for protection switching, optional CWDM/DWDM**
- **Point to Point configuration**
- **Ring network 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 Reference Clock**
- **Input Cable Equalization & Reclocker**
- **1 RU height**
- **Replaceable Fans**
- **Redundant power supplies**

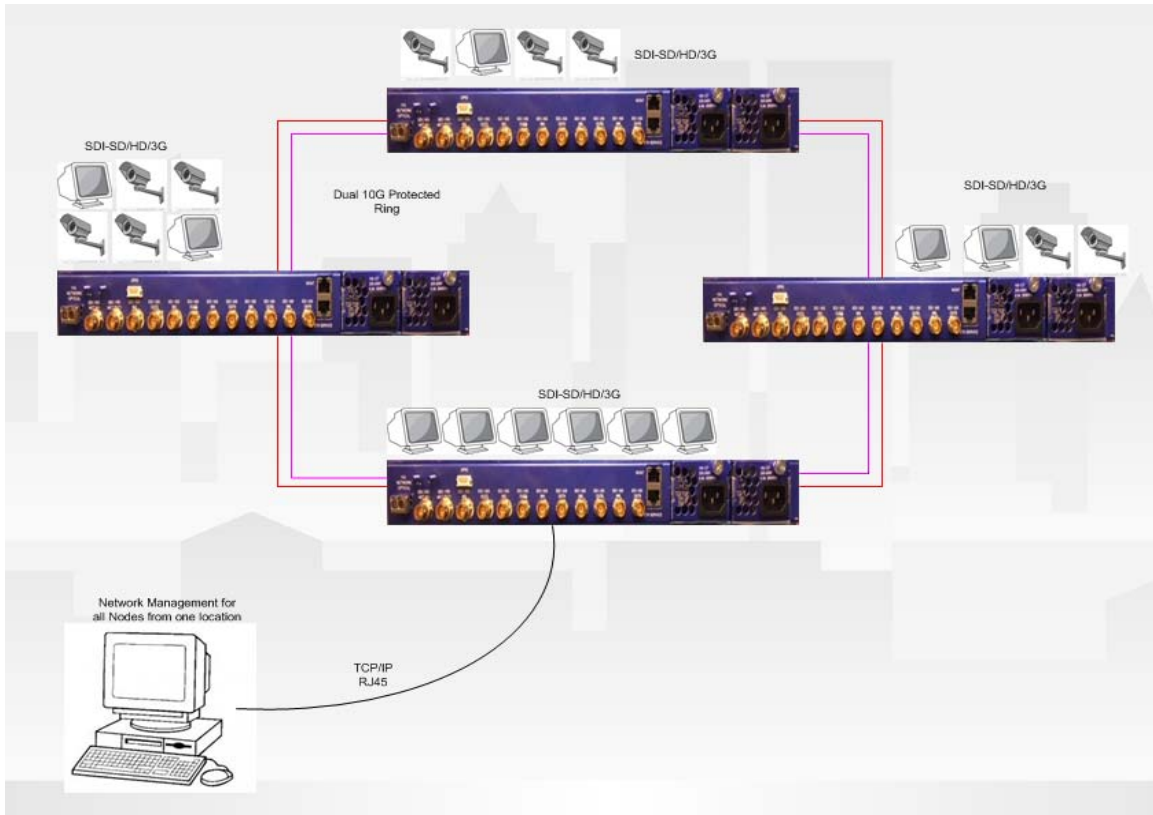
Description

IPITEK's MSP-320 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-320 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-320 is a true bi-directional transport unit in 1 RU 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-320 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-320 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.



MSP-320 shown in a protected dual fiber ring. This configuration allows at each node for SDI video services to Add / Drop / Pass. The bandwidth of ring is 10Gbps. This allows for **30 SDI-SD** services to travel anywhere along fiber path or **6 SDI-HD** signals on one wavelength. If more bandwidth is necessary then an additional MSP320 can be used at each location on another fiber wavelength. Network Management can be centrally located and connected up to one MSP-320 chassis using Ethernet RJ45. This will allow communication to all nodes in ring. Upon power up the nodes will perform auto discovery to determine how many nodes in a ring. This will show up on Main Menu of Network manager.

Specifications

Network Interfaces

Fiber Interfaces:

2 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)

Ordering Information:

MSP-310 Multi Service Video Aggregation Fiber Optic Trunk: 03-7334-0003
Pluggable Optics Module DWDM (ch15-61) 80km Ch# xx: 03-7301-9xx1

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
Network Management System Software sold separate.



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