



SVS-109 Fiber Optic Multiplexer

Compact size, functionality, reliability and cost were the drivers behind the development of SeaView Systems' optical fiber multiplexer.



SVS-109 with Molex connectors (left) and Phoenix connectors (right)

Highly Functional: Our card supports three channels of standard video, 100mb Ethernet, and 8 serial channels in various combinations and two high speed trigger pulse channels.

Simple to Use: This device is simple to integrate. It has baud-rate tolerant circuitry eliminating the need to set up confusing DIP

switches. By setting simple jumpers, two serial channels will internally convert between RS-485 on bottom to RS-232 on the surface (or vice versa) eliminating the need for inline converters on the surface: a perennial source of trouble.

Flexible: Want to run HD-SDI or Gigabit Ethernet as well as standard video and serial data? No problem. We have the flexibility to configure our boards to work in with external off-the-shelf transceivers performing these specialized tasks. Let SeaView set you up with a comprehensive system supporting all you need to run, all in one compact package, running on one single mode fiber.

Reliable: Our cards use all surface mount technology. Each unit is thoroughly tested in an extreme environmental and vibration test enclosure.





Specifications:

Video:	2 channels x 10 bit analog video 1 channel x 8 bit analog video (NTSC, PAL, SECAM)
Ethernet:	1 x 100mb Ethernet channel with and inbuilt, 2 port switch
Serial:	2 x RS485 4 x RS232 2 x either RS232 or RS485 Onboard RS485-RS232 conversion. All serial channels are transparent to baud rate. No DIP switch settings.
Trigger:	2 x high speed TTL Trigger functions (USBL responder trigger, multibeam PPS pulse, etc)
Input Power:	5VDC, 1 amp

LED Indicators:	Power, Fiber lock, 2 x Ethernet (one for each port), RX/TX for each of 8 serial ports. Video signal indicators.
Fiber:	Single mode SFP module with LC connectors (multimode optional). Standard BiDi and CWDM frequencies.
Fiber Power Budget:	Single mode: 24dB (MM 13.5dB)
Dimensions:	Standard PC104 96mm x 90mm x 17.5mm

SeaView Systems, Inc. designs, manufactures and operates remotely operated vehicles, electronics and other custom hardware/software tools, including oceanographic instruments, custom remotely operated vehicles and tooling systems, to meet oceanographic and underwater robotic applications.

For more details or supplemental media, please email SeaView Systems at info@seaviewsystems.com.