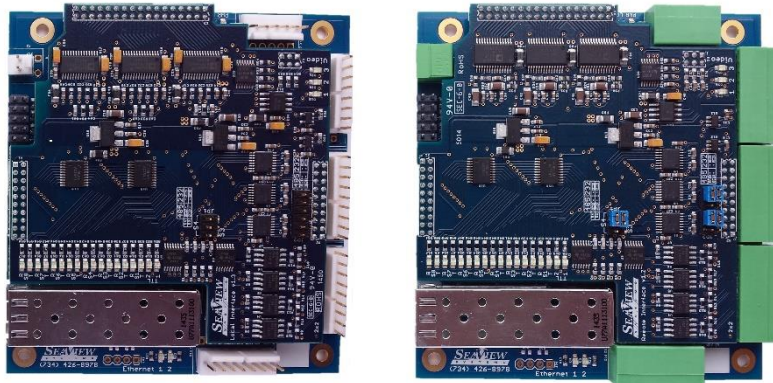




## SVS-109 Fiber Optic Multiplexer

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:

<b>Video:</b>	2 channels x 10 bit analog video 1 channel x 8 bit analog video (NTSC, PAL, SECAM)
<b>Ethernet:</b>	1 x 100mb Ethernet channel with and inbuilt, 2 port switch
<b>Serial:</b>	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.
<b>Trigger:</b>	2 x high speed TTL Trigger functions (USBL responder trigger, multibeam PPS pulse, etc)
<b>Input Power:</b>	5VDC, 1 amp

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

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