Optical Interface Controller

SX199 — Optical interface controller
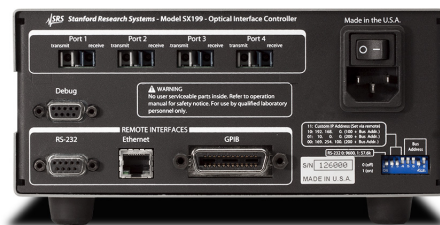
The SX199 Optical Interface Controller is a communications bridge to connect up to four SR124 analog lock-in amplifiers with a serial optical interface to a computer's remote interface via GPIB, Ethernet, or RS-232.

The front panel of the SX199 provides simple monitoring of the status of the remote interface and optical port connections. There are three LED sections available for Power, Ports, and Interface activities.

The rear panel of the SX199 provides all external interface connections and the power switch. The optical ports are in the upper block of the rear panel. Remote connection to the SX199 is supported with GPIB, RS-232 and Ethernet computer interfaces. These interfaces can be configured by the rear-panel DIP switches.

SX199 Specifications

Rear panel

Optical ports	Four Avago "Versatile Link", duplex, non-latching (mating part HFBR-4506Z)
Remote interfaces	
RS-232	DB-9, 9600 / 57.6k baud, switch selected
GPIB	IEEE 488.2
Ethernet	10 / 100 Base-T (auto)
Debug port	RS-232, DB-9

Optical ports

Wavelength	660 nm (typ.)
Fiber optic length	3 m standard (HFBR-RMD003Z)
	10 m available (HFBR-RMD010Z)

General

Temperature	0 °C to 40 °C, non-condensing
Power	25 W, 90 VAC to 260 VAC, 47 Hz to 63 Hz
Dimensions	8.25" × 4" × 11" (WHD)
Weight	5 lbs.
Warranty	One year parts and labor on defects in materials and workmanship