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 or CS580 current sources 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.

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**SX199 Specifications**

- **Four serial optical ports**
- **GPIB, RS-232 and Ethernet**
- **Remote interface monitoring**
- **SX199 ... $1495** *(U.S. list)*

**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