JDS Uniphase

JDS Uniphase SG08082 Optic Matrix Switch

Features:

* Up to 64 total inputs and outputs (32x32, 28x36, etc.)
* Latching optical connections
* Low insertion loss over operating range
* Broad wavelength operation
* High reliability
* RS232 and GPIB remote control
* Complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1

Applications:

* Reconfiguration and restoration of broadband
* Fiber Networks
* Data communication and multimedia networks
* Research and development

The JDS Uniphase Programmable Matrix Switch is a nonblocking, compact, rack-mountable instrument providing reliable switching operations. The design allows the user to connect any input to any output without breaking other existing connections. Standard asymmetrical (4x8, 8x12, up to 28x36) and symmetrical (8x8, 16x16, up to 32x32) configurations are offered for a broad range of applications, in standard single-mode and multimode fiber.

The operation of the matrix switch is based on the proven expanded beam technology, utilizing precision stepper-motors to align optical channels. This feature results in excellent repeatability and stability. The use of collimating lenses minimizes insertion loss and enhances performance of the switches. Optical signal stability over time is assured through the latching feature. Connections within the matrix switch change no more than 1 dB if there is a power interruption, and at power up the switch does not reconfigure until commanded to do so.

For reliability, two power supply options are available. A highly reliable integrated module is standard. As an option, a dual redundant, hot-swappable power supply is available as a separate rack-mounted addition. Other options include an installation kit with rack slide set and rack extenders for a 24 inch (60.96 cm) rack.

Control of the device can be implemented remotely via a GPIB or an RS232 interface. A LabVIEW driver is provided in order to control and monitor connection "status and switch" operations.