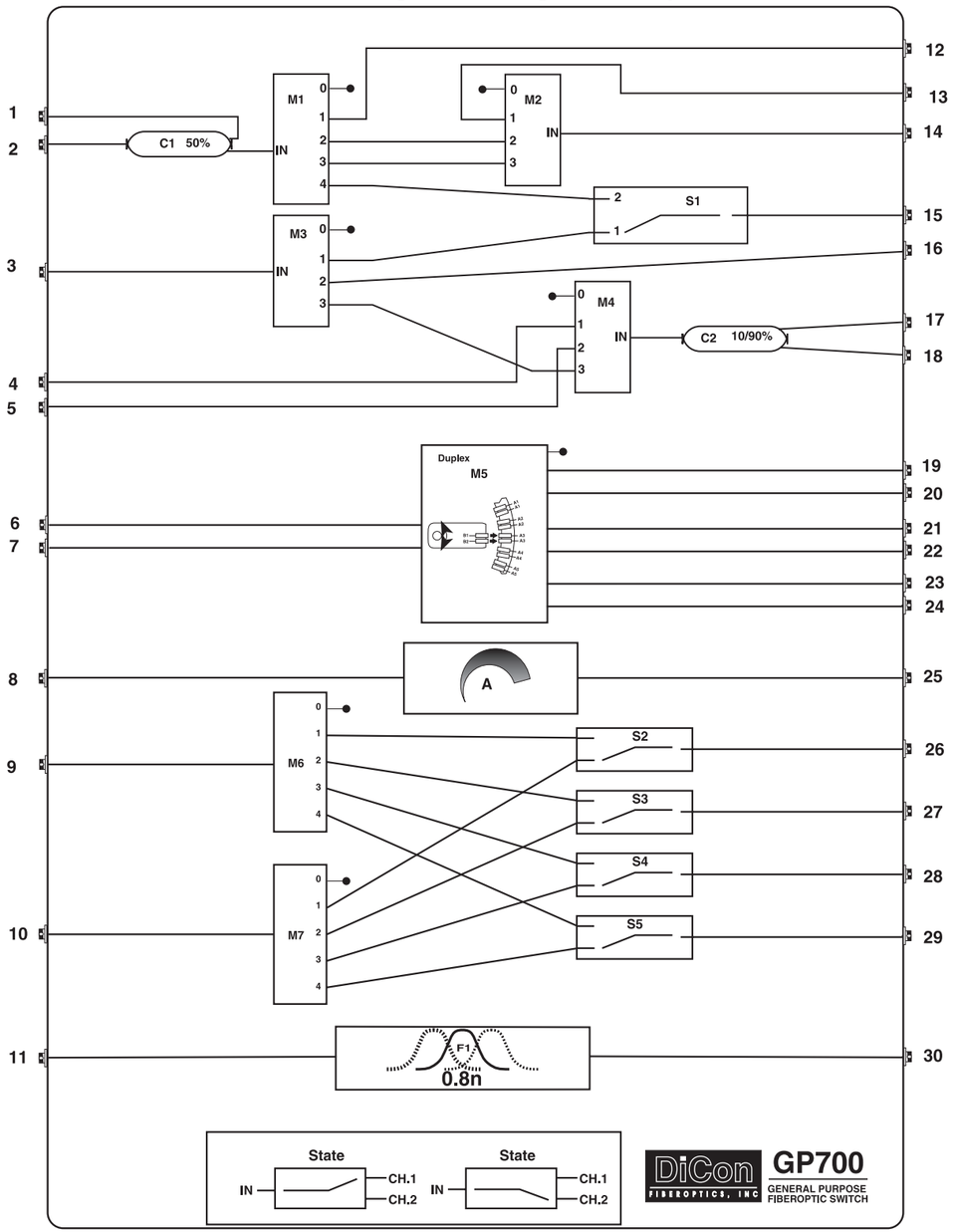
GP700 Platform

Internal Components

Custom Configuration Diagram Example



Quote # **Customer Approval:** _____ **Date:** _____

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GP700 Platform
Internal Components

MxN Matrix Switches

DiCon's GP700 MxN Matrix Switch module routes optical signals through passive switch elements without optical-to-electrical conversions. The MxN Matrix Switch operates independently of signal wavelength, direction, bandwidth, data rate, and data format with virtually no cross-talk. The directional matrix switch is used to connect any one input to any one output. The distributional matrix switch is used to connect any one input to one, several, or all outputs. Both models of the MxN Matrix Switch are available in simplex or duplex configurations.

Features

- Very low insertion loss
- Low back-reflection
- Simplex and duplex configurations
- High reliability and durability
- Matrix dimensions up to 15x15

Applications

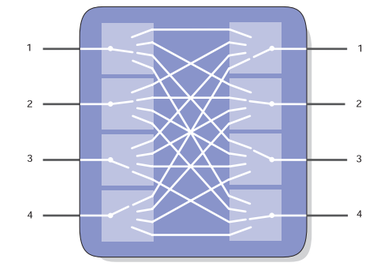
The GP700 MxN Matrix Switch is used for fully reconfigurable factory and network testing. Because the GP700 Matrix Switch is optically passive, the switch can be used in any type of fiber testing networks including FDDI, SONET, SDH, ATM, and Fiber Channel.

Specifications[1]

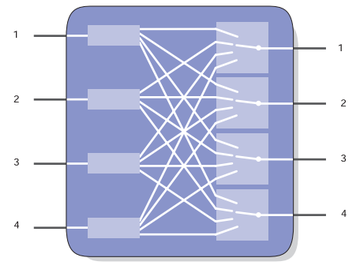
Insertion loss		1.2 dB typ., 2.4 dB max.
Back-reflection	singlemode	-55 dB max.
	multimode	-20 dB typ.
Repeatability[2]		±0.04 dB max.
PDL[3]		0.1 dB max.
Cross-talk		-80 dB max.
Switching time		500 ms typ., 750 ms max.

1. All specifications referenced without connectors.
2. 100 cycles measured at constant temperature after warm-up.
3. Singlemode only. Measured at 1550 nm.

Configurations



MxN Directional Matrix Switches are used to direct each input fiber port to a single output fiber port. Each input module consists of a 1xN fiberoptic switch, and each output module consists of a 1xM fiberoptic switch.



MxN Distributional Matrix Switches are used to distribute any one input fiber port to one, several, or all output fiber ports. Each input module consists of a 1xN fiberoptic splitter, and each output module consists of a 1xM fiberoptic switch.

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