

MxN Programmable Matrix Switch System

LT2000

The LT2000 Series of MxN programmable matrix switches offers the standard symmetrical (3x3 through 32x32) and asymmetrical (4x6, 3x12, 2x26, etc.) configurations in a 19" rack mount chassis. The LT2000 delivers excellent stability and field proven reliability. The LT2000 series can be combined with other LIGHTech switches and fiber taps to offer a flexible architecture for custom applications. These systems are available with a front panel keypad and a RS-232 or GPIB control interface. LabVIEW drivers are provided.

- Insertion loss of 1.7 dB, typical (including connectors)
- Repeatability of: ± 0.01 dB (LT2100)
± 0.03 dB (LT2200)
- Crosstalk of <math>< -60</math> dB
- Local keypad and GPIB or RS-232 remote control
- Bench top or rack mounting

Applications

- Manufacturing test systems
- R&D laboratories
- Reconfiguration and restoration of broadband fiber networks
- Data communication and multimedia networks



Fiberoptic Solutions at the Speed of

LIGHTechTM
FIBEROPTICS, INC.

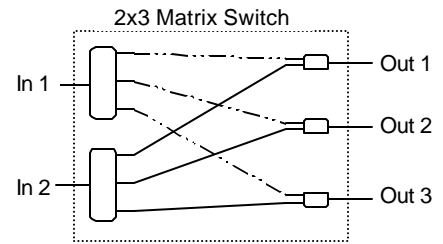
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Configuration example:



Performance Specifications

LT2000 Series Stand Alone MxN Matrix

Specifications	LT2100	LT2200	Units
Maximum channels	32 x 32	8 x 8	--
Insertion Loss ^{1,2}	1.7 typ – 2.5 max	1.7 typ – 2.5 max	dB
Repeatability	< ± 0.01	< ± 0.03	dB
Switching Time	80 + 25/channel	20 typical - 30 max	ms
Operating Temperature	0 to 50		°C
Back Reflection	< -55		dB
Crosstalk	< -60		dB
PDL	< 0.2		dB
Control	Local Keypad/ GPIB / RS-232 interface		--
Chassis (19" rack mount)	4U, 8U, up to 14U		--
Wavelength Window ³	1280~1340, 1520~1580		nm

All specifications referenced with SC/APC or FC/APC connectors

All specifications referenced with single-mode fiber

Multimode and asymmetrical matrix available upon request

1. Insertion loss based on 1550 nm single wavelength

2. Add 0.4 dB for 1310/1550 nm dual wavelength

3. Optimized at 1310 or 1550 nm (other wavelengths available upon request)

Ordering Information: ⁽³⁾

Example: MN1616M5G-FCA

Code	# of Input Channels
02	2
03	3
04	4
12	12
16	16
32	32
Etc.	

Code	# of Output Channels
02	2
04	4
05	5
08	8
16	16
33	33
Etc.	

Code	Mechanism
M	Motor (LT2100)
R	Relay (LT2200)

Code	Control
G	GPIB ⁽¹⁾
R	RS-232
B	Both

Code	Wavelength
3	1310 nm
5	1550 nm ⁽¹⁾
D	1310/1550 nm ⁽²⁾
S	Special

Code	Connector Type
FCA	FC/APC
FCP	FC/PC
FCU	FC/UPC
SCA	SC/APC
SCP	SC/PC
SCU	SC/UPC
STP	ST/PC
SSS	Special

(1) Product standards
 (2) Cause specification change
 (3) Custom specifications available

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