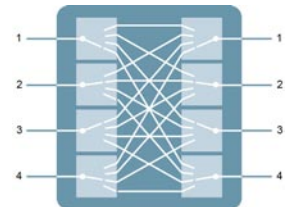


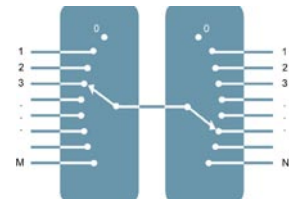
# GP750 PROGRAMMABLE INSTRUMENT

## MATRIX SWITCH PLUG-IN MODULE

DiCon's Matrix Switch Plug-In Module is a flexible integrated switching system. Input and output ports are interconnected to form a fully non-blocking, two stage optical cross-connect. A simpler, blocking version is also available. Each Plug-In Module is designed for easy integration into DiCon's GP750 modular system. All plug-in modules require no configuration and are hot swappable, providing true plug-and-play functionality.



Non-blocking MxN



Blocking MxN

## FEATURES

- Precise repeatability
- Fast switching time
- MEMS durability and reliability

## APPLICATIONS

Matrix switches allow an automated test system to be reconfigured dynamically. A matrix switch can greatly simplify fiber management, providing an ideal solution for managing shared resources.



# GP750 PROGRAMMABLE INSTRUMENT

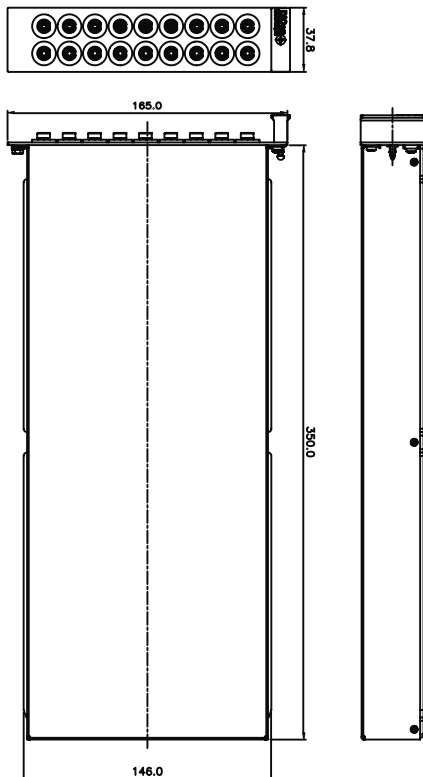
## MATRIX SWITCH PLUG-IN

### OPTICAL SPECIFICATIONS<sup>1</sup>

PARAMETER		RATING
Insertion Loss <sup>2</sup>	Single-Band	1.80 dB max.
	Dual-Band	2.00 dB max.
Crosstalk <sup>4</sup>		-70.00 dB max.
Back Reflection		-45.00 dB max.
Switching Time		40.00 ms max.
TDL		0.40 dB max.
WDL <sup>3</sup>		0.30 dB max.
PDL		0.20 dB max.
Repeatability <sup>4</sup>		0.04 dB max.
Durability		10 <sup>9</sup> cycles min.
Optical Power		500 mW max.
Fiber Type		9/125 μm single mode

- Specifications are without connectors.
- IL is measured at CWL, 23°C.
- WDL is measured in a +/- 20nm range at 23°C.
- Repeatability is defined after 100 cycles.

### MECHANICAL DIMENSIONS (Units: mm)



### ORDERING INFORMATION

GPX - □ - □ - □ - 9 - □

#### Product Code

GPX Matrix Module

#### Slot Width

1S 1-Slot Module  
2S 2-Slot Module  
4S 4-Slot Module

See table below

#### Switch Configuration

MxN/NB MxN, Non Blocking, Specify M, N ≤ 16  
MxN/BK MxN, Blocking, Specify M, N ≤ 15

#### Wavelength Range

13 1290 - 1330 nm  
15 1530 - 1570 nm  
16 1570 - 1610 nm  
13/15 1290 - 1330 & 1530 - 1570 nm  
15/16 1530 - 1570 & 1570 - 1610 nm

#### Fiber and Jacket Type

9 Corning SMF-28 9μm fiber  
Or other equivalent 9μm Singlemode fiber

#### Connector Type

FC/SPC FC/SPC  
FC/APC FC/APC  
N NONE

Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

### SLOT WIDTH

MATRIX	BLOCKING	NON-BLOCKING
8x8	1 Slot	1 Slot
15x15	2 Slots	
16x16		4 Slots