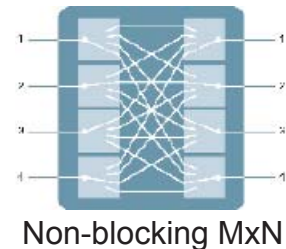# GP750 PROGRAMMABLE INSTRUMENT

SINGLE MODE MATRIX SWITCH PLUG-IN MODULE

DiCon's Single Mode 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. 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

FEATURES

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

APPLICATIONS

Matrix optical switches allow resources to be shared within R&D or Production labs, while also being reconfigurable to adapt to future changes.
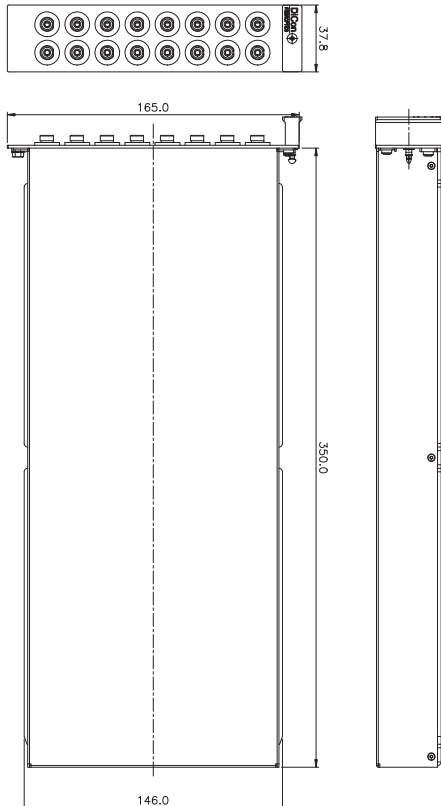
DiCon
FIBEROPTICS

GP750 PROGRAMMABLE INSTRUMENT

SINGLE MODE MATRIX SWITCH PLUG-IN

OPTICAL SPECIFICATIONS[1]

PARAMETER		RATING
Insertion Loss[2]	Single-Band	1.8 dB max.
	Dual-Band	2.0 dB max.
Crosstalk		-60 dB max.
Back Reflection		-45 dB max.
Switching Time		40 ms max.
TDL		0.4 dB max.
WDL[3]		0.3 dB max.
PDL		0.2 dB max.
Repeatability[4]		0.04 dB max.
Durability		10^9 cycles min.
Optical Power		500 mW max.
Fiber Type		9/125 μm single mode

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

ORDERING INFORMATION

GPX - ☐ - ☐ - ☐ - 9 - ☐

Product Code

GPX   Matrix Module

Slot Width

1S   1-Slot Module

Switch Configuration

MxN/NB   MxN, Non Blocking
Specify M,N≤8

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

MECHANICAL DIMENSIONS
(Units: mm)

37.8

165.0

350.0

146.0