DiCon’s Multimode 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.

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.
GP750 PROGRAMMABLE INSTRUMENT
MULTIMODE MATRIX SWITCH PLUG-IN

OPTICAL SPECIFICATIONS1

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss2,3</td>
<td>4x4 2.0 dB max.</td>
</tr>
<tr>
<td>8x8 2.4 dB max.</td>
<td></td>
</tr>
<tr>
<td>Crosstalk</td>
<td>50 μm -25 dB max.</td>
</tr>
<tr>
<td>62.5 μm -20 dB max.</td>
<td></td>
</tr>
<tr>
<td>Back Reflection</td>
<td>-20 dB max.</td>
</tr>
<tr>
<td>Switching Time</td>
<td>40 ms max.</td>
</tr>
<tr>
<td>TDL</td>
<td>0.4 dB max.</td>
</tr>
<tr>
<td>Repeatability4</td>
<td>0.04 dB max.</td>
</tr>
<tr>
<td>Durability</td>
<td>10^9 cycles min.</td>
</tr>
<tr>
<td>Optical Power</td>
<td>500 mW max.</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>Multimode</td>
</tr>
</tbody>
</table>

1. Specifications are without connectors.
2. IL is measured at CWL, 23°C.
3. IL is for single-band. Dual-band add 0.4 dB
4. Repeatability is defined after 100 cycles.

ORDERING INFORMATION

GPX - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Product Code
GPX Matrix Module

Slot Width
1S 1-Slot Module

Switch Configuration
MxN/NB MxN, Non Blocking
Specify M,N≤8 for 50 μm
and M,N≤4 for 62.5 μm

Wavelength Range
8 850 nm only
9 980 nm only
13 1310 nm only
8/13 850 & 1310 nm

Fiber and Jacket Type
50 50 μm core fiber
62 62.5 μm core fiber

Connector Type
FC FC/PC
LC LC/PC
SC SC/PC
ST ST/PC
N NONE

MECHANICAL DIMENSIONS
(Units: mm)