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# Modular GP700

## Multi-Channel Switch Plug-In

DiCon's Multi-Channel Switch Plug-In offers accurate connection of one or two input fiber channels to a maximum of 16 output fiber channels. The Plug-In is designed for easy installation into DiCon's GP700M Modular Mainframe. DiCon's Multi-Channel Switch Plug-In can be built with Corning SMF-28, Flexcor 1060 or Polarization Maintaining Panda fiber.

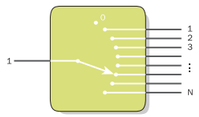



## Features

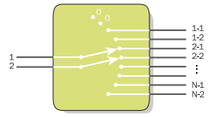
- Very low insertion loss
- Low back-reflection
- Precise repeatability
- Flexible fiber types and wavelength ranges

## Applications

Simplex 1xN Switches have one input aligned to one of N outputs. The components switch in one-channel increments. Duplex 1xN switches have two inputs aligned to two outputs. They switch in two-channel increments.

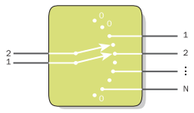



Simplex 1xN

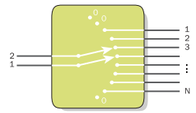



Duplex 1xN

Blocking 2xN switches have two inputs aligned with only one output. The components switch in half-channel increments. Non-blocking 2xN switches have two inputs aligned with two outputs. They switch in one-channel increments.




Blocking 2xN




Non-Blocking 2xN

DiCon FIBEROPTICS, INC

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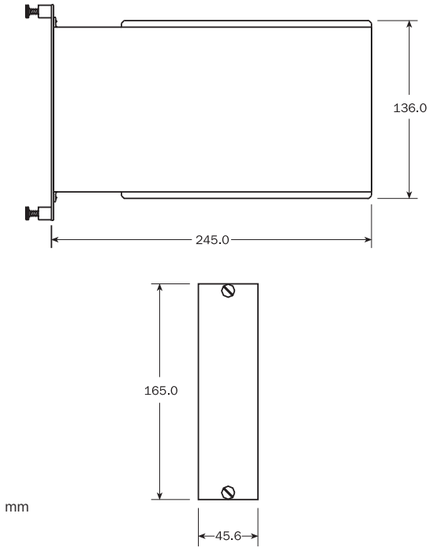
Modular GP700

## Specifications[1]

| | | |
|---|---|---|
| Insertion loss[2] | | 0.6 dB typ., 1.0 dB max. |
| Back-reflection | singlemode | -55 dB max. |
| | multimode | -20 dB typ. |
| Repeatability[3] | | ±0.02 dB max. |
| PDL[4] | | 0.05 dB max. |
| Cross-talk | | -80 dB max. |
| Extinction ratio[5] | | 18 dB min. |
| Durability | | 10 million cycles min. |
| Switching time | | 620 ms max. |
| Optical power[6] | | 300 mW max. |
| Operating temperature | | 0°C to +40°C max. |
| Storage temperature | | -20°C to +60°C |
| Humidity | | 40°C/90%RH/5 days |

1. All specifications referenced without connectors.
2. 1.2 dB max. for multiple wavelength ranges.
3. Sequential repeatability for 100 cycles at constant temperature after warm-up.
4. Singlemode only. Measured at 1550 nm.
5. Corning Panda PM 1300 fiber type only.
6. High power version (2W) available as special order.

## Housing Dimensions




Units: mm

## Ordering Information

PM - ☐ - ☐ - ☐ - ☐

Switch Configuration

| | |
|---|---|
| 1x4 | Simplex 1x4 |
| 1x8 | Simplex 1x8 |
| 1x12 | Simplex 1x12 |
| 1x16 | Simplex 1x16 |
| 1x2/DS | Synchronous Duplex 1x2 |
| 1x4/DS | Synchronous Duplex 1x4 |
| 1x6/DS | Synchronous Duplex 1x6 |
| 2x4/LB | Blocking 2x4 |
| 2x8/LB | Blocking 2x8 |
| 2x12/LB | Blocking 2x12 |
| 2x4/LN | Non-blocking 2x4 |
| 2x8/LN | Non-blocking 2x8 |
| 2x12/LN | Non-blocking 2x12 |

Fiber Type

| | |
|---|---|
| 9 | 9/125[1] |
| 50 | 50/125 |
| 62 | 62.5/125 |
| 10 | Flexcor 1060[2] |
| PM | Panda 1300[3] |

Wavelength Range[4]

| | |
|---|---|
| 10 | 960 - 1000 nm[5] |
| 8/13 | 780 - 1350 nm[6] |
| 13/15 | 1290 - 1360 nm and 1530 - 1560 nm[7] |
| 13/16 | 1290 - 1360 nm and 1530 - 1610 nm[7] |
| 15 | 1530 - 1560 nm[8] |
| 16 | 1530 - 1610 nm[7] |

Adapter Type

| | |
|---|---|
| FC | FC/SPC |
| FC/APC | FC/APC |
| FC/UPC | FC/UPC |
| SC | SC/SPC |
| SC/APC | SC/APC |
| SC/UPC | SC/UPC |
| ST | ST/SPC |
| ST/UPC | ST/UPC |
| LC | LC/UPC |

1. Corning fiber SMF-28.
2. Corning Flexcor 1060 fiber with 250um jacket.
3. Corning Panda PM 1300 fiber with 400 um jacket.
4. All wavelengths referenced to vacuum.
5. Flexcor only.
6. Multimode fiber only.
7. 9/125 fiber only.
8. 9/125 fiber and Panda 1300 fiber only.

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