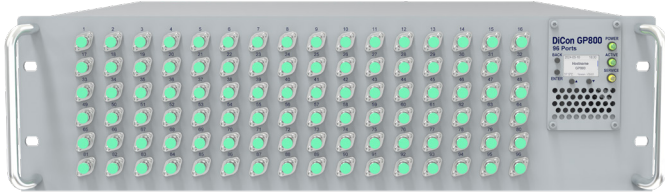


MEMS 96-PORT ANYPORT OPTICAL SWITCHING SYSTEM

GP800 Model, Single Mode Fiber, Anyport-to-Anyport



The DiCon GP800 96-Port Anyport is a high-density, all-optical non-blocking cross-connect switch designed for maximum architectural flexibility. Featuring a true **Anyport-To-Anyport (ATA)** design, any of the 96 ports can be dynamically connected to any of the remaining 95 ports. This “universal” port mapping allows test engineers to conveniently reconfigure the system—moving from a **1x95** switch to a **48x48** matrix—to meet the shifting demands of complex test environments without manual recabling.

Built on DiCon’s proprietary **3D MEMS mirror platform**, the GP800 delivers elite optical performance within a robust rack-mount form factor. Unlike competing systems that rely on complex feedback loops, the GP800 operates with open-loop precision.

- **Zero-Dither Signal Integrity:** Because the unit functions without position sensors or active feedback, optical signals pass through with no observable dithering artifacts, ensuring pristine data transmission.
- **"Dark Fiber" Stability:** The system maintains long-term connectivity and switching accuracy even in the absence of an optical signal, providing a "set-and-forget" reliability that is essential during network downtime or staged testing.
- **Precision & Repeatability:** Engineered for high-cycle environments, the GP800 switches repeatedly with exceptional accuracy and superior long-term stability.
- **Intelligent hardware:** The GP800 features field-serviceable hardware designed for rapid on-site maintenance, ensuring maximum operational uptime by eliminating the need for costly production shutdowns.

ORDERING INFORMATION

GP800 - □ / □ - AS - □ - 9 - □ - □ - □ - N - □

Chassis Type

2U 2U
3U 3U
**Please consult DiCon*

Chassis Depth

17 17"
**Please consult DiCon*

Product Type

AS Anyport Singlemode

Configuration

T96 96 Ports
TM M Ports (M<96)

Fiber Type

9 9/125 μm SMF
**Other fiber options available upon request*

Test Wavelength

O 1310 nm
E 1410 nm
S 1490 nm
C 1550 nm
L 1590 nm
U 1650 nm
**Use "/" to add multiple wavelengths. E.g., O/C or O/C/L*

Power

A1 AC 100-240V Single
D1 DC -48V Single
A2 AC 100-240V Redundant
D2 DC -48V Redundant

Connector Type

FC FC/UPC
FC/APC FC/APC
LC LC/UPC
LC/APC LC/APC
RLC LC/UPC on Removable Panel
RLC/APC LC/APC on Removable Panel
**Other connector types available upon request*

Connector Key Orientation

N None

Connector Location

F Front
R Rear

MEMS 96-PORT ANYPORT OPTICAL SWITCHING SYSTEM

GP800 Model, Single Mode Fiber, Anyport-to-Anyport

OPTICAL SPECIFICATIONS¹

| | |
|--|--------------------|
| Test Wavelength | 1260 to 1675 nm |
| Insertion Loss ² | < 1.2 dB |
| Loss Repeatability ³ | +/- 0.03 dB |
| Connection Stability ^{4,5} | +/- 0.03 dB |
| PDL ⁵ | < 0.1 dB |
| WDL ^{5,6} | < 0.3 dB |
| Crosstalk ⁵ | < -60 dB |
| Back Reflection | < -50 dB |
| Optical Transition Time ^{5,7} | < 25 ms |
| Switch Lifetime | > 1 Billion Cycles |
| Input Power Range | Dark to +27 dBm |

1. Measured separately for each Test Wavelength at room temperature
2. Measured with 3-jumper method or equivalent. See TIA/EIA 526-7.
3. Over 100 cycles
4. 1 Hz sampling rate for 15 min
5. Met by design, not measured
6. WDL is defined within Test Wavelength ± 20 nm
7. Optical transition time for all ports switching concurrently, not including command processing overhead

ELECTRICAL SPECIFICATIONS

| | |
|-------------------|---|
| Power Supply | 100-240 VAC, 50/60 Hz |
| Connectors | RJ45 (Ethernet) DB9 (RS232) USB-C (Service) |
| Control Interface | Web GUI, SSH, RS232, REST API, Telnet, gNMI |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|-----------------------|
| Operating Temperature | 0 to 50°C, < 85% RH |
| Storage Temperature | -40 to 70°C, < 40% RH |

MECHANICAL SPECIFICATIONS

| | | | |
|----------------|--------------|-------------|----|
| Chassis Width | 483 mm (19") | | |
| Chassis Depth | 435 mm (17") | | |
| Chassis Height | FC | Front Panel | 3U |
| | | Back Panel | 3U |
| | SC | Front Panel | 2U |
| | | Back Panel | 3U |
| | LC | Front Panel | 2U |
| | | Back Panel | 2U |
| | RLC | Front Panel | 2U |
| | | Back Panel | 2U |

