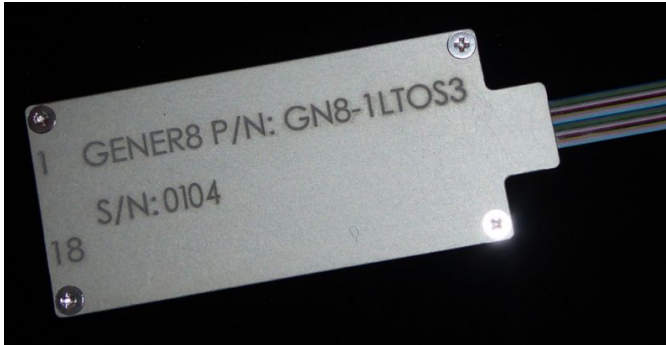


# Northstar Photonics Programmable Switch



The Programmable Switch designed and developed by Gener8, manufactured by Northstar Photonics, provides a compact, light-weight, solution for photonic signal routing applications. The standard configuration provides an 18-port interface with individually addressable switching between the ports and redundant switch circuits for increased reliability. Ports 1 and 18 each include an optical tap and photodiode for power monitoring.

Parameter	Programmable Switch
Package Dimensions 1)	64.80 mm x 27.00 mm x 5.63 mm
Weight	< 17.5 g
Electrical Interface	1 x 18-pin Omnetics Nano-connector
Power consumption	< 300 mW per switch, Max 3.3 W
Activation Voltage at extinction	12 V
Operating Range	-35 C to + 71 C
Fiber Pigtail Length 2)	> 1.0 m
Optical Fiber MFD 2)	9.5 ± 1.0 μm
Fiber type 2)	ITU G.657.B3
Insertion Loss (IL) per switch	> - 0.65 dB
Polarization Dependent Loss (PDL) per switch	< 0.05 dB
Switching Speed	< 2.0 ms
Extinction Ratio	> 20 dB
Photodiode Tap responsivity	> 0.02 A/W
VOA Max Attenuation	> 30 dB

- 1) Does not include fiber pigtails
- 2) Custom fiber configurations available upon request