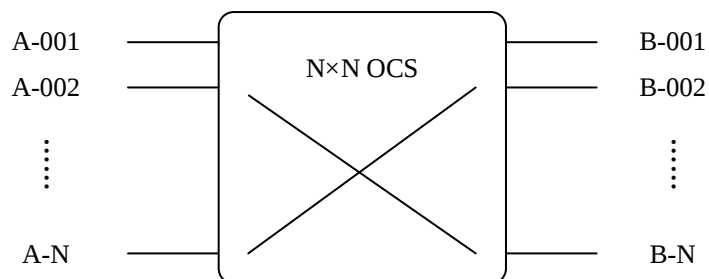


Product: 128×128 Optical Circuit Switch

Part Number	Spec Number	Version	Date
TS-OCS-128X128	S061	Rev 01	08/14/2025

1 Function Diagram



2 Specifications

2.1 Specifications

Item	Parameters	Specifications	Units	Note
1.	Channel Number	128 × 128	\	
2.	Operating Wavelength Range	1260 ~ 1660	nm	
3.	Typical Insertion Loss	1.8	dB	
4.	Maximum Insertion Loss	3.0	dB	
5.	Cross Talk	< -50	dB	
6.	Return Loss	> 45	dB	
7.	Connection Stability	± 0.2	dB	[1]
8.	Repeatability	± 0.1	dB	[2]
9.	Polarization Dependent Loss	< 0.2	dB	
10.	Wavelength Dependent Loss	< 0.3	dB	[3]
11.	Data Latency	< 25	ns	
12.	Optical Power Dynamic Range	Dark to +27	dBm	
13.	Durability	> 10 ⁹	Cycles	G
14.	Switch Time (Single Channel)	< 20	ms	G
15.	Switch Time (All Channels)	< 150	ms	G

2.2 Environment Conditions

Item	Parameters	Min	Max	Units	Note
16.	Operating Temperature	5	45	°C	
17.	Storage Temperature	-40	70	°C	
18.	Operating Relative Humidity	5	95	%	[4]
19.	Storage Relative Humidity	5	95	%	[4]

Note:

[1] Stability and repeatability are measured at maximum transmission.

[2] Repeatability is defined over 100 cycles.

[3] The Wavelength Dependent Loss (WDL) is measured from CWL +/- 20nm.

[4] Not to exceed industrial standard of 0.024 kg water per kg of dry air under non-condensing conditions.

G: Guaranteed by design.

2.3 Electrical and Mechanical Specifications

2.3.1 Specifications

Item	Parameters	Specifications	Note
20.	Fiber Type (Single Mode)	G.657 A2 or equivalent	
21.	Chassis Dimension	4 Unit Rack (440mm×550mm×176mm)	
22.	Housing Color	Grey (Pantone 432U)	
23.	Connector Type	LC/APC or LC/UPC	[5]
24.	Control Interface	NETCONF, SNMPv3, TL1, Web GUI and REST API	
25.	User Interfaces	RJ45 Gigabit Ethernet	
26.	Craft Interfaces	RS232 Serial and USB	
27.	Power Consumption	< 60 W	
28.	Power Options	100~240 VAC 50/60 Hz or 48 VDC	

Note:

[5] Connector type can be customized.

2.3.2 Drawings

4 Unit Rack:



3 Device Label, Delivery Data

Triple-Stone standard format.

4 RoHS

RoHS compliant.