

Data Diode for Network Isolation in High-Security Environments

- ✓ Unidirectional gateway
- ✓ Singlemode and multimode support
- ✓ Directional traffic control
- ✓ "Software-less" physical operating principle
- Passive
- 1U 19" rackable
- Reduced cost

Despite the need to isolate critical industrial production networks from other networks such as office networks, it is necessary to be able to transfer information to these secure environments. In addition, it is imperative to control the tightness of the traffic to ensure that data from equipment in secure areas cannot pass through external networks.

With Tapics DIODOP network diodes, we guarantee the tightness between networks to make traffic unidirectional in the direction of the less secure networks towards the most secure networks.

SINGLEMODE AND MULTIMODE OPTICAL RANGE

This range has been designed in multimode and singlemode. It guarantees that physically, after insertion on the upstream links of the secure networks, no data can transit from these networks to less sensitive networks.

The unidirectional operation of the DIODOP diode provides to operators the tightness expected for the operation of critical production networks.

The main advantages are:

- "Physical gateway"
- Totally passive equipments
- Continuity of production traffic guaranteed in the downstream direction
- No packet loss
- Up to 16 diodes in a single chassis
- Security seals
- Unmanageable
- No software embedded

AVAILABLE IN MODULAR FORM

DIODOP is modular. In a 1U rackmount chassis common to the ModuloTap range of TAP Tapics, it is possible to install up to 16 diodes or, to simplify installations, to combine diodes and TAPs.



Singlemode diode and 1U chassis

SINGLEMODE SPECIFICATIONS

	Description	
Order ref:	DIODOP-SM-1310	DIODOP-SM-1550
Optical mode:	singlemode	
Throughput:	1 to 10 Gbps	
Wavelength:	1310 nm	1550 nm
Fiber type:	9 / 125 µm OS2	
Attenuation A to B:	< 4,5 dB	
Isolation:	> 25 dB	
Weight:	150 g	
Dimensions (W x D x H):	22 x 40 x 220 mm	
Modular chassis:	Up to 16 modules	

MULTIMODE SPECIFICATIONS

	Description	
Order ref:	DIODOP-MM-850	
Optical mode:	multimode	
Throughput:	1 to 10 Gbps	
Wavelength:	850 nm	
Fiber type:	50 / 125 µm OM4	
Attenuation A to B:	< 5 dB	
Isolation:	> 25 dB	
Weight:	800 g	
Dimensions (W x D x H):	74 x 40 x 220 mm	
Modular chassis:	Up to 4 modules	

COMMON SPECIFICATIONS

	Description
Product type :	Optical network data diode
Throughput:	1 to 10 Gbps
Connection to originating network:	1 LC connector (A) - Rx traffic from diode port A
Connection to destination network:	1 LC connector (B) - Tx traffic from diode port B
Vibrations:	Mil-Std 810G standard
Operations:	0°C to 50°C, humidity 5% to 90% non condensing
Certifications :	ROHS, REACH, CE