

Data Diode for Network Isolation in High-Security Environments

- ✓ Unidirectional gateway
- ✓ Ethernet RJ45 10/100/1000 BT
- ✓ 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 DIODC 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.



Copper Network Diode RJ45 1 Gbps



Rackmount frame

FOR COPPER NETWORK

This range has been designed for copper links. 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 DIODC diode provides to operators the tightness expected for the operation of critical production networks.

The main advantages are:

- "Physical gateway"
- Totally passive equipment
- Continuity of production traffic guaranteed in the downstream direction
- No packet loss
- Up to 3 diodes in a single chassis or in a rackmount frame
- Security seals
- Unmanageable
- No software embedded

SPECIFICATIONS

Order réf:	Description
Product type:	DIODC-1G-SEC Copper passive diode
Throughput:	10 Mbps to 1 Gbps
Originating network:	1 x 10/1000/1000 BT RJ45
Destination network:	1 x 10/1000/1000 BT RJ45
Ethernet compatibility:	802.3, 802.3af PoE et VoIP
Latence (ns):	10 Mbps: 6000, 100 Mbps : 740, 1 Gbps: 425
Electrical supply:	External - 220V/12V
Electrical consumption:	4 W
MTBF:	250,000 h
Control:	LEDs
Rack:	3 diodes / rackmount frame
Weight:	450 g
Dimensions:	113 x 30 x128 mm
Heat dissipation:	14 Btu/h
Vibrations :	2,24 Grms / 3 axes
Operations:	0°C to 50°C, humidity 10% to 90% non condensing
Certifications :	ROHS, REACH, CE

SPACE SAVING

In the same form factor as the 1 link Tapics copper TAP and the Tapics TAOP range, the Tapics copper diode can be integrated into 19" racks by mixing the different technologies to save space in the racks where they are deployed.