



UNIDIRECTIONAL DATA TRANSFER DEVICE WITH ELECTRICAL AND OPTICAL INTERFACES

IBD65 is a communication device, without any processing elements, used for unidirectional data transfer at physical layer, in 10/100/1000 Mbps Ethernet Networks.

Description

The device must be connected between two network areas, "UPSTREAM" , the source network, and "DOWNSTREAM", the destination network. Data transfer is allowed only from the UPSTREAM to the DOWNSTREAM area. Data transfer from the DOWNSTREAM to the UPSTREAM area is not possible because the interface is physically disconnected. Both UPSTREAM and DOWNSTREAM device interfaces enable 1000BASE-T full duplex communication (*using electric interfaces*) and 1000BASE-X full duplex communication (*using SFP optical interfaces*). Data transmission and reception are compliant with the IEEE 802.3z and IEEE 802.3ab standards.

IBD65 enables the following optical signaling (*LEDs*):

UPSTREAM interface

- PWR - indicates that the power supply works properly;
- LINK - indicates that the physical link is active;
- RX - indicates that the interface receives data.

DOWNSTREAM interface

- PWR - indicates that the power supply works properly;
- LINK - indicates that the physical link is active;
- TX - indicates that the interface sends data.

The device features overvoltage protection.

Technical specifications

Power supply	5 VCC
Communication interfaces	1000BASE-T, 1000BASE-X
Maximum throughput	1000 Mbps
Maximum electric consumption	0,6 A
Casing dimensions (<i>WxDxH</i>)	202x100x35 mm
Weight	670 g

Environmental conditions

Operating temperature	0°C ... + 65°C
Maximum relative humidity	80%