



4 mounted together for 19" Rack installation

Data Diode Rugged (TEMPEST Level A+ & RÖS U1)

Description

Fibersystem Data Diodes offer a hardware-based, unidirectional communication solution (Simplex) that completely eliminates the risk of data being sent in the wrong direction. With fiber optic links for galvanic isolation, total protection between networks is ensured.

The Data Diodes operate transparently for all types of data and support, among other things, Syslog, NTP Broadcast, SNMP traps, as well as UDP in all forms (Unicast, Broadcast, Multicast, Multicast, Manycast).

Fibersystem Data Diodes Rugged are designed to operate in extremely harsh environments and conditions.

Safety-enhancing features

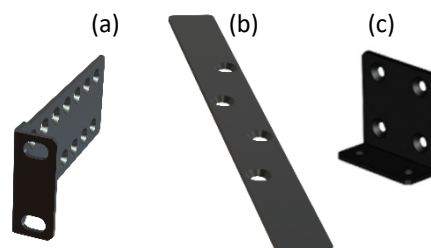
- TEMPEST Level A+ and RÖS U1 (60-00-7131, 60-00-7445, 60-00-7134)
- Tamper-proof housing for maximum safety
- Riveted and sealed enclosures as standard – ensuring safe operation
- Built-in protection against EMC interference and information leakage
- No risk of crosstalk
- Multiple layers of one-way protection
- With brackets and adapter plates you can mount it in existing rack solution

Versions

- 100 Mbps or 1 Gbps
- TEMPEST Level A (Zone 0) and RÖS U1

Accessories

- Mounting Brackets for 1 Data Diode for Rack mount (a)
- Adapter plate for 2-4 Data Diodes (b)
- Mounting Brackets for 4 Data Diodes for Rack mount (c)



Rugged Features

- **Low pressure operation** according to MIL-STD 810G test 500.5 Procedure-I type B air transport storage and for operation procedure –II type a)
- **High temperature operation** according to MIL-STD 810G test 501.5 Procedure -I (operation) level Hot dry +70°C and procedure-III (storage) Hot/dry (+71°C)
- **Low temperature operation** according to MIL-STD 810G test 502.5 Procedure -I (Storage) Cold (C2) - 46°C and procedure -II(operation) Cold (C2) -40°C
- **Rain operation** according to MIL-STD 810G test 506.5 Rain 506.4-I Outdoor, -II indoor with drop
- **Humidity operation** according to MIL-STD 810G test 507.4 procedure -I High RH (B2) 6 cycles
- Salt fog operation according to MIL-STD810G test 509.5 with 5 % concentration for 7 days
- **Vibrations operation** according to MIL-STD 810G test 514.5 procedure-I and -II Operation category 14 and 20; transport category 4,5 and 10. (Shock 40 g @ 11 ms, Chock 75 g @ 6 ms)
- **Shock operation** according to MIL-STD 810G 516.6 procedure I (functional test for ground equipment) 3 shocks in each 6 directions
- **Water protected** according to IPX5
- **Dust protected** according to IP4X
- **EMC protected** according to MIL-STD 461F ; RE 101, RE102 level Navy Mobile & Army and CE102 level Basic curve
- **EMI protected** according to MIL-STD 461F : CE 101, RS103 level Army; CS101 level Curve#1; CS114 level Army; CS115 level Army and CS116 level Army

Technical data

Power	Description
DC	10-32 VDC, Max 10 W. (Optional 18-75 VDC)
DC connector	3-pin
Consumtion	2.5 W
Regulatory compliance	Description
Safety	CE
Environmental	Complies with appropriate requirements of RoHs and WEEE
MIL Standard	Description
MIL-STD 810G, MIL-STD 461F	Only 60-00-7131, 60-00-7132, 60-00-7133, 60-00-7134)
RÖS U1/TEMPEST Level A	Class SS1 (Only 60-00-7132, 60-00-7444, 60-00-7133)
Mechanics and Environment	Description
Dimensions	44(H), 110(W), 227(D) mm / 1.7 (H), 4.3 (W), 8.9(D) inch 1 U high and ¼ 19 inch wide
Weight	1.4 kg/ 3.09 lbs
Temperature range	-40 °C to 70 °C, at 5-95%RH relative humidity, non-condensing

Ordering information

Part No	Description	Mbps	Wave-length	In	Out	Multimode/ Singlemode
60-00-7131	Data Diode Rugged 1 Gbps (TEMPEST Level A and RÖS U1)	1000	850	LC	LC	MM
60-00-7445	Data Diode Rugged 1 Gbps (TEMPEST Level A and RÖS U1)	1000	1310	LC	LC	SM
60-00-7132	Data Diode Rugged 1 Gbps	1000	850	LC	LC	MM
60-00-7444	Data Diode Rugged 1 Gbps Singlemode	1000	1310	LC	LC	SM
60-00-7134	Data Diode Rugged 100 Mbps (TEMPEST Level A and RÖS U1)	100	1310	LC	LC	MM
60-00-7133	Data Diode Rugged 100Mbps	100	1310	LC	LC	MM
60-00-7233	Mounting Brackets for 1 Data Diode for Rack mount					
60-00-7113	Adapter plate for 2-4 Data Diodes					
60-00-7421	Mounting Brackets for 4 Data Diodes for Rack					