



Data Diodes Rugged

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

Enables unidirectional transfer of data over fibercable between two networks with hardware separation to guarantee security.

Fibersystem Data Diodes advantages

- One-way connection between two networks (also known as Simplex)
- Based on hardware, no extra software needed. This completely eliminates the risk for data flowing in false direction
- Fiberoptical links for galvanic separation between networks
- Data will be transparently forwarded
- No extra software needed when using one way compatible protocols, such as: UDP stream/ broadcast, Syslog, NTP, SNMP traps

Versions of Data Diodes Rugged

- 100 Mbit or 1Gbit
- TEMPEST Level A/ EMSEC/ RÖS U1
- Other versions see separate Datasheet Data Diodes 50-800 System

Accessories

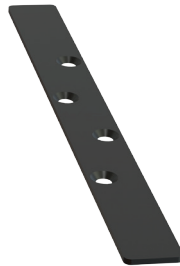
- 1HU Mounting Bracket (a)
- Adapter plate for other Rugged devices (b)
- Adapter plate for Fibersystem Rugged devices (c)



(a)



(b)



(c)

Features Data Diodes Rugged

- **Low pressure operation** according to MIL-STD 810G test method 500.5 Procedure-I type B airtransport storage and for operation procedure -II type a)
- **High temperature operation** according to MIL-STD 810G test method 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 method 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 method 506.5 Rain 506.4-I Outdoor, -II indoor with drop
- **Humidity operation** according to MIL-STD 810G test method 507.4 procedure -I High RH (B2) 6 cycles
- **Salt fog operation** according to MIL-STD810G test method 509.5 with 5% concentration for 7 days
- **Vibrations operation** according to MIL-STD 810G test method 514.5 procedure-I and -II Operation category 14 and 20; transport category 4,5 and 10. (Shock 40g@11ms, Chock 75g@6ms)
- **Shock operation** according to MIL-STD 810G method 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 method; RE 101, RE102 level Navy Mobile & Army and CE102 level Basic curve
- **EMI protected** according to MIL-STD 461F method: CE 101, RS103 level Army; CS101 level Curve#1; CS114 level Army; CS115 level Army and CS116 level Army

Fiber optic links	Data speed	Fiber	Wavelength	Typical distance
	1Gbit	1000 BaseSX	850nm	220m Multimode 62.5/125µm
	1Gbit	1000 BaseLX	1310nm	500m Multimode 50/125µm
	100Mbit	100 BaseFX	1310nm	5km Singlemode 10/125µm
				2km Multimode 50/125µm and 62.5/125µm

Environmental

Temperature range -40 to + 70°C

Power Supply

DC 10-32VDC, Max 10W. (Optional 18-75VDC)
DC-connector 3 pin

Power Consumption

2.5W

Regulatory compliance

Safety CE
Environmental Complies with appropriate requirements of RoHs and WEEE

MIL Standard

MIL-STD 810G, MIL-STD 461F (Only 660-00-7131, 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)

Dimensions and Weight

Physical size 44 (H), 110(W), 227(D)mm/ 1.7 (H), 4.3 (W), 8.9(D)inch 1 HU high and ¼ 19inch wide
Weight 1.4kg/ 3.09lbs

Rugged Data Diodes

Part number	Model	M-Number	Description	Mbit/s	Wave length	In	Out	MM/ SM
60-00-7131	50-800	M3196-655310	Data Diode Rugged 1Gbit MM (TEMPEST Level A/EMSEC/RÖS U1)	1000	850	LC	LC	MM
60-00-7445	50-800		Data Diode Rugged 1Gbit SM (TEMPEST Level A/EMSEC/RÖS U1)	1000	1310	LC	LC	SM
60-00-7132	50-800	M3196-655210	Data Diode Rugged 1Gbit MM	1000	850	LC	LC	MM
60-00-7444	50-800		Data Diode Rugged 1Gbit SM	1000	1310	LC	LC	SM
60-00-7134	50-800	M3196-655010	Data Diode Rugged 100Mbit MM (TEMPEST Level A/EMSEC/RÖS U1)	100	1310	LC	LC	MM
60-00-7133	50-800	M3196-655110	Data Diode Rugged 100Mbit MM	100	1310	LC	LC	MM

Accessories

Product number	Model	M-Number	Description
60-00-7233	50-800		1HU Mounting Bracket for Fibersystem Rugged devices (one pair with screws)
60-00-7114	50-800		Adapter plate for other Rugged devices
60-00-7113	50-800		Adapter plate for 19 inch rack

This brochure may be subject to change without prior notice.