

Data Diode Card Module Secure

- 100 Mbps
- 1 Gbps
- TEMPEST Level A och RÖS U1
- Fiber or Copper interface can be chosen independantly for In and Out
- Tamper proof enclosure
- EMC and back channel protected in hardware design

The Fibersystem Data Diodes communication gives the following advantages

- One-way connection between two networks (also known as Simplex)
- Based on hardware, no extra software is needed. This completely eliminates the risk of data flowing in false direction
- Fibre optical links for galvanic separation between networks
- Can be used in any Ethernet application using fibre or copper connectivity
- All data will be transparently forwarded
- Ethernet and or fibre based
- Supports: Syslog, NTP Broadcast, SNMP traps
- Supports: UDP (Unicast, Broadcast, Multicast, Manycast)
- Additional software is needed for Queue Mgmt, Logging, Mail, FTP, SNMP and SDK.

Card Modules Secure

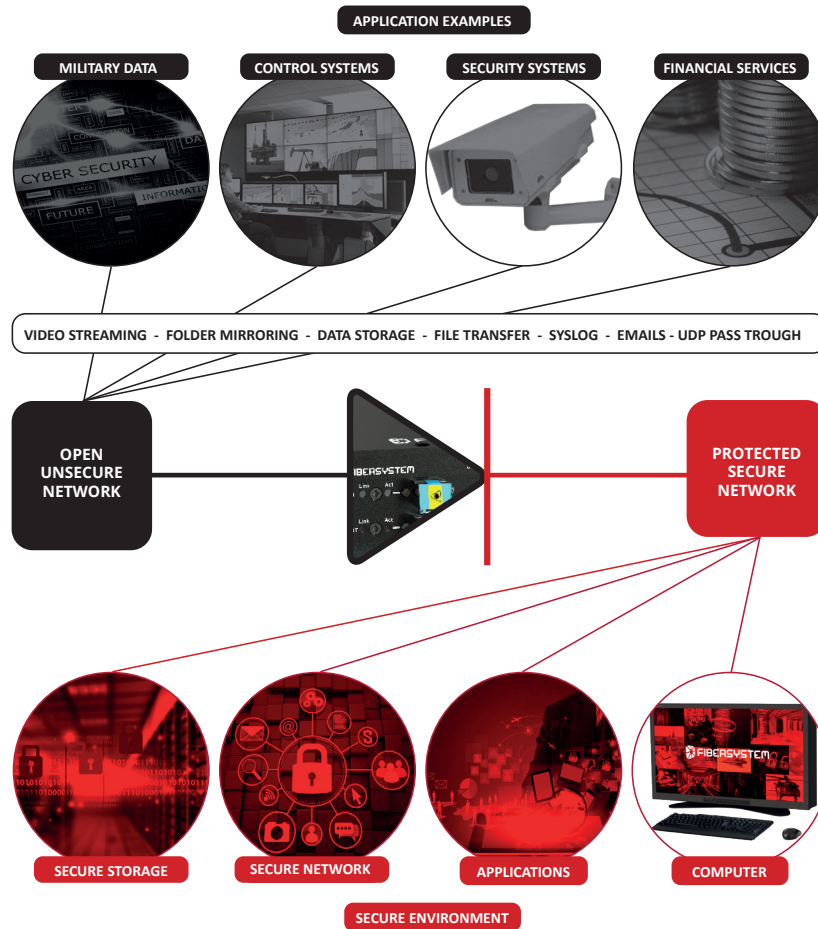
- Tamper proof enclosure
- Riveted and sealed enclosure by default for assurance
- EMC and back channel protected in hardware design
- No crosstalk
- Multiple unidirectional barriers
- The Rack Modules can be integrated in your existing solution/product

Versions

- 100 Mbps
- 1 Gbps
- Tempest Level A and RÖS U1

Accessories for Card Modules

- Fibersystem Single Slot Unit
- Fibersystem 19" Rack System, 3 rack slots
- Fibersystem 19" Rack System, 16 rack slots
- Rack shelf 19" for 3 Single Slot Units



Secure File Transfer (additional software needed)

Transfer files from one network to another with no the risk of sending information in the opposite direction.

Secure Plant Monitoring (additional software needed)

Send continuous plant monitoring information from Production Network to Corporate Network securely.

Secure CCTV Recordings (additional software needed)

Ensure integrity of CCTV recordings by sending the unprocessed camera stream to safe storage and keep the network safe from hijackers trying to connect to the company network through the CCTV Camera wire.

Information Management

Control direction of information streams in your network.

Isolate secret networks

Create working Isolated secret networks with necessary input sent unidirectionally from Open/Unclassified networks.

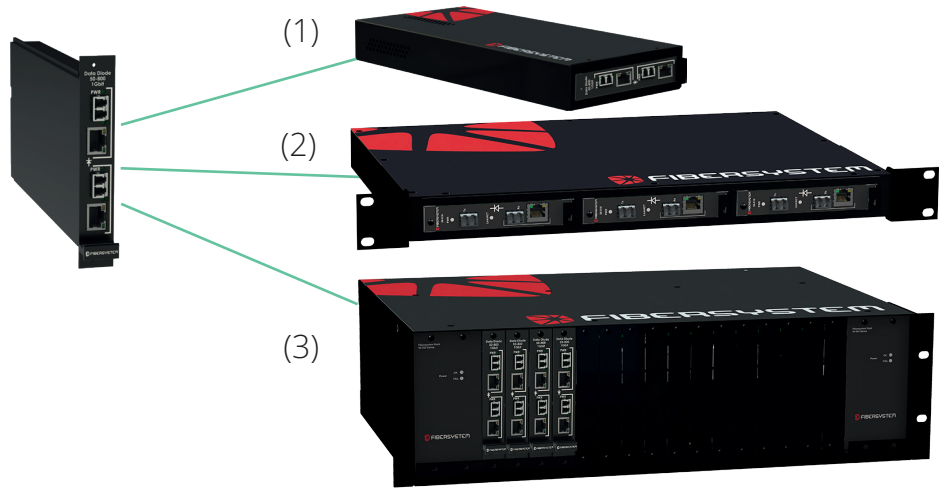
Distribute NTP to secret networks

Securely distribute and synchronize NTP in secret networks.

Flexibility

The Data Diode Modules can be used in our:

- Single Slot Unit (1)
- Rack System 3 Slots (2)
- Rack System 16 Slots (3)



Single Slot Unit

- Single Slot Unit for Fibersystem Card Modules
- Built in Power Supply

For more information, see Rack System Datasheet



Rack System 19" 3 Card slots

- 3 rack slots for Fibersystem Card Modules
- 1 U high
- Built in Power Supply
- With or without SNMP

For more information, see Rack System Datasheet



Rack System 19" 16 Card slots

- Redundant Power Supplies
- 16 rack slots for Fibersystem Card Modules
- 3 U high
- Hot swap of power and card modules



Optional

- QNX RealTime OS version 6.5.0
- HTTP-based (Web browser) interface for configuration/administration
- RTC (real time clock) support
- NTP (Network Time Protocol) support
- SNMPv2 (SNMPv1 compatible) and Web 2.0 (json)
- Interface for access of sensor data
- Logging
- Syslog

- I²C bus enabled for:
 - Fan speed
 - Current
 - Voltage
 - Temperature (three locations on the back plane)
 - Card module slot state (Unoccupied/Occupied/Power error)

For more information, see Rack System Datasheet

Data Diodes Rack Module

Galvanic/Electrical link	
Data speed	100 Mbps or 1 Gbps depending on model
Media	100BaseTX, 100BaseFX, 1000BaseTx or 1000BaseSX
Fiber optic links	
Data speed	100 Mbps or 1 Gbps
Media	100BaseFX or 1000BaseSX
Wavelength	850 nm
Fiber optical connector	LC
Fiber	Multimode 50/125 µm or 62.5/125 µm
Optical system budget	13 dB in 62.5/125 µm. 9 dB in 50/125 µm fiber
Typical distance	0-2 km (3 dB system margin for 50/125 µm, 6 dB for 62.5/125 µm)
Environmental	
Temperature range	Operating, 0 to +50 °C. Storage, -40 °C to +70 °C
Relative humidity	Operating, 5 to 95 %. Storage, 5 to 95 % non condensing
Regulatory compliance	
Safety	CE
Environmental	Complies with appropriate requirements of RoHs and WEEE
Dimensions and Weight	
Physical size	115(H), 20(W), 195(D) mm / 4.5(H), 0.8(W), 7.7 (D) inch
Weight	0.15 kg / 0.33 lbs

Ordering information

Data Diodes Rack Module Secure

Part number	Model	M-Number	Description	In	Out
60-00-7303	50-800	M3196-661110	Data Diode Card Module Secure 1 Gbps Multimode (Tempest Level A/ RÖS U1)	RJ45 / LC	RJ45 / LC
60-00-7304	50-800	M3196-661010	Data Diode Card Module Secure 100 Mbps Multimode	RJ45 / LC	RJ45 / LC
60-00-8362	50-800		Data Diode Card Module Secure 1 Gbps Single mode	RJ45 / LC	RJ45 / LC
60-00-8363	50-800		Data Diode Card Module Secure 100 Mbps Single mode	RJ45 / LC	RJ45 / LC

19" Rack Solution and One Slot Casing

Part number	Model	M-Number	Description
60-00-6406	50-502	F3785-000080	Single Slot Unit with built in 15 W power 85 VAC - 264 VAC, 47-63 Hz
60-00-7231	50-502	M3196-993219	Single Slot Unit with built in 15 W power. 24 VDC (nom 9-36)
60-00-7391	50-502		Rack System 19" 3 Card slots
60-00-7392	50-502		Rack System 19" 3 Card slots with SNMP
60-00-6918	50-502	M3196-001800	Rack System 19" 3 U with 2 x 150 W redundant power supplies, 16 card slots, with SNMP
60-00-6944	50-502	M3196-992819	Rack System 19" 3 U with 2 x 150 W redundant power supplies, 16 card slots, without SNMP
60-00-6505	50-502	F3785-000084	Rackshelf 19" for 3 Single Slot Units