



19" Rack 3 HU



19" Rack 1 HU



Single Slot Unit


 Single Slot Unit
DIN-mount

Rack System 50-502

Fibersystems new enterprise-class rack system is designed to provide a flexible manageable system for the Fibersystem cardmodules.

The 50-502 System is easy to install and to use, ideal for enterprises and private/public institutions. With its modular architecture and add-as-you-grow design it serves as the optimal platform for small and large installations.

Versions

- 19" Rack System 3 HU, 16 rack slots
- 19" Rack System 1 HU, 3 rack slots
- Rack shelf for 3 Single Slot Unit
- Single Slot Unit
- Single Slot Unit DIN-mount

Advantages

- Modular add-as-you-grow design
- 20 different Card modules
- Backward compatible to older Fibersystem cardmodules
- Optional SNMP and Web 2.0 management system (19" Rack System)
- Minimal need for specialized training, support and maintenance use
- Hot swap of Single Slot Unit
- Hot swap of power (19" Rack System)

Fibersystem Single Slot Unit

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



Fibersystem 19" Rackshelf for Single Slot Unit

- Rack shelf for 3 Single Slot Unit



Fibersystem 19" 3 HU Rack System

- Built in Redundant Power Supplies
- Hot swap of power and Card Modules
- 16 slots for Card Modules
- Optional SNMP and web 2.0 Management system
- 3 HU high



Fibersystem 19" 1 HU Rack System

- Built in Redundant Power Supplies
- Hot swap of power and Card Modules
- 3 slots for Card Modules
- Optional SNMP and web 2.0 Management system
- 1 HU high



Options for Fibersystem 19" Rack System (60-00-6918, 60-00-7392)

Operatingsystem

QNX RealTime OS version 6.5.0 to ensure stabile operations

GUI

HTTP-based (Web-browser) interface for configuration/ administration (Please see screenshots below)

Real Time Clock

RTC (real time clock) support, no battery (Capacitor powered)

NTP

NTP (NetworkTimeProtocol) support

SNMP

SNMPv2 (SNMPv1 compatible) and Web 2.0 (json) interface for access of sensor data

Syslog

Syslog Support

Logging

Logging of card slot state changes for each individual slot. SNMP/json can be used to log sensor values on external devices.

Fan speed, Current, Voltage , Temperature, Card module slot, insertion/removal of card module. These values are sent to the syslog outside the rack itself.

For security reasons it's impossible for the built in Surveillance and Monitoring System to read or change the data on the card modules.

I2C bus enabled for:

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

GUI Screenshots: System Status & Configuration (Only 60-00-6918)

FIBERSYSTEM

Overview
Status
System
Network
SNMP
NTP
syslog
Log
Update
Shutdown

Gauges

| Sensor | Value |
|----------------------------------|---------|
| Fan 1 Speed | 793 RPM |
| PSU 1 Voltage | 0.53 V |
| PSU 1 Current | 0.00 A |
| Fan 2 Speed | 800 RPM |
| PSU 2 Voltage | 5.06 V |
| PSU 2 Current | 1.37 A |
| Backplane Temperature 1 (Left) | 26 °C |
| Backplane Temperature 2 (Middle) | 26 °C |
| Backplane Temperature 3 (Right) | 26 °C |

Card slots

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

GUI Screenshot: System Log (Only 60-00-6918)

✶ FIBERSYSTEM

[Overview](#)

[Status](#)

[System](#)

[Network](#)

[SNMP](#)

[NTP](#)

[syslog](#)

[Log](#)

[Update](#)

[Shutdown](#)

Log

| id | Timestamp (UTC) | Process | Message |
|-----|---------------------|----------|---|
| 303 | 2015-06-11 14:43:43 | slotmond | Slot 12 changed state from unoccupied to error |
| 302 | 2015-06-11 14:39:23 | slotmond | Startup ok slots: 5 |
| 301 | 2015-06-11 14:39:23 | slotmond | Starting up .. |
| 300 | 2015-06-11 14:39:23 | i2cd | Starting up .. |
| 299 | 2015-06-11 14:39:23 | admd | Starting up .. |
| 298 | 2015-06-11 14:39:22 | logd | Starting up .. |
| 297 | 2015-06-11 10:25:54 | slotmond | Termination requested through var/killdaemon.sock.311321 |
| 296 | 2015-06-11 10:25:54 | admd | Shutdown/halt requested |
| 295 | 2015-06-11 10:25:54 | webmin | Shutdown requested [10.202.8.115] |
| 294 | 2015-06-11 10:24:52 | slotmond | Startup ok slots: 5 |
| 293 | 2015-06-11 10:24:52 | slotmond | Starting up .. |
| 292 | 2015-06-11 10:24:52 | i2cd | Starting up .. |
| 291 | 2015-06-11 10:24:52 | admd | Starting up .. |
| 290 | 2015-06-11 10:24:52 | logd | Starting up .. |
| 289 | 2015-06-11 10:24:26 | logd | Shutting down .. |
| 288 | 2015-06-11 10:24:26 | logd | Termination requested by daemonslayer through var/killdaemon.sock.5890072 |
| 287 | 2015-06-11 10:24:26 | stated | Termination requested through var/killdaemon.sock.5877784 |
| 286 | 2015-06-11 10:24:26 | admd | Shutting down .. |
| 285 | 2015-06-11 10:24:26 | i2cd | Termination requested through var/killdaemon.sock.5865496 |
| 284 | 2015-06-11 10:24:26 | slotmond | Termination requested through var/killdaemon.sock.5849113 |

Technical Data

Single Slot Unit 60-00-6406/7231/7480

Power supply

DC, 60-00-7231 and 60-00-7480 24VDC nom (9-36)
 AC, 60-00-6406 85VAC- 264VAC, 47-63Hz
 AC-connector IEC 320, 3 pin
 DC-connector..... DC terminal block

Environmental

Temperature range Operating, 0 to +50C. Storage,-40 to +70C
 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 38(H), 133(W), 280(D)mm

Rack 19" 60-00-6918/6944/7391/7392

Power supply

AC 100VAC- 240VAC, 50-60Hz
 AC-connector IEC 320, 3 pin

Environmental

Temperature range Operating, +10 to +40C. Storage,-40 to +70C.
 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

| | | |
|---------------------|---------------------------|--------------------------|
| | 60-00-6918/6944 | 60-00-7391/7392 |
| Physical size | 133(H), 445(W), 345 (D)mm | 43(H), 445(W), 280 (D)mm |
| Weight | 9 kg | 2 kg |

19" Rack System and Single Slot Unit

| Partnumber | Model | M-number | 19" Rack System and One slot casing |
|------------|--------|--------------|--|
| 60-00-6918 | 50-502 | M3196-001800 | Rack 19" 3HU with 2x150W redundant powersupplies,16 card slots, with SNMP |
| 60-00-6944 | 50-502 | M3196-992819 | Rack 19" 3HU with 2x150W redundant powersupplies,16 card slots, without SNMP |
| 60-00-7392 | 50-502 | | Rack 19" 1HU with 2x45W redundant powersupplies, 3 card slots, with SNMP |
| 60-00-7391 | 50-502 | | Rack 19" 1HU with 2x45W redundant powersupplies, 3 card slots, without SNMP |
| 60-00-6406 | 50-502 | F3785-000080 | Single Slot Unit with built in 15W power 85 VAC - 264 VAC, 47-63 Hz |
| 60-00-7231 | 50-502 | M3196-993219 | Single Slot Unit with built in 15W power. 24VDC (nom 9-36) |
| 60-00-7480 | 50-502 | | Single Slot Unit DIN-mount with built in 15W power. 24VDC (nom 9-36) |
| 60-00-6505 | 50-502 | F3785-000084 | Rack shelf 19" 1HU, 1-3 Single Slot Unit |

Rack Modules (Fiber Optical)

| Partnumber | Model | M-number | Network interface |
|------------|-----------|--------------|--|
| 60-00-7353 | 50-504/ST | F3785-000050 | Rack Module 10BaseT-10BaseFL ST |
| 60-00-7354 | 50-504/SC | M3196-990449 | Rack Module 10BaseT-10BaseFL SC |
| 60-00-6615 | 50-5004B | F3785-000068 | Rack Module 100BaseT-100BaseFX SC |
| 60-00-7388 | 50-50004 | M3196-991909 | Rack Module 1000BaseT-1000BaseSX/LX LC |
| | | | USB |
| 60-00-7356 | 42-106 | F3785-000085 | Rack Module USB 2.0 Receiver to Fo 4port HUB USB LC |
| 60-00-7357 | 42-108 | F3785-000091 | Rack Module USB 2.0 Transceiver to Fo USB LC |
| | | | RS232 |
| 60-00-7358 | 23-420 | F3785-000083 | Rack Module RS232 Transceiver RS232 four channel |
| 60-00-7359 | 42-105 | F3785-000082 | Rack Module USB - Hub 3 ports + RS232 four channel LC |
| 60-00-7360 | 42-107 | M3199-621010 | Rack Module USB – 4 x RS232 four channel LC |
| 60-00-7361 | 23-421 | M3196-001830 | Rack Module RS232 SM Transceiver RS232 four channel |
| | | | Data Diode Rack Module |
| 60-00-7303 | 50-800 | M3196-661110 | Data Diode Rack Module 1Gbit Secure (Tempest Level A/ RÖS U1) |
| 60-00-7304 | 50-800 | M3196-661010 | Data Diode Rack Module 100Mbit Secure |
| 60-00-6615 | 50-813 | F3785-000088 | Data Diode Rack Module 100BaseTX to 100BaseFX MM SC |
| 60-00-6618 | 50-814 | F3785-000089 | Data Diode Rack Module 100BaseFX MM SC to 100BaseTX |
| 60-00-7230 | 50-824 | M3196-657010 | Data Diode Rack Module 100BaseTX to 100BaseTX |
| 60-00-6659 | 50-815 | F3785-000092 | Data Diode Rack Module 1000BaseT/1000BaseSX MM LC to 1000BaseT |
| 60-00-6901 | 50-816 | M3196-500710 | Data Diode Rack Module 1000BaseT/1000BaseSX MM LC to 1000BaseSX MM LC |
| 60-00-6902 | 50-817 | M3196-500810 | Data Diode Rack Module 1000BaseSX MM LC to 1000BaseT/1000BaseSX MM LC |
| | | | HDBaseT |
| 60-00-6932 | 45-600 | M3199-994929 | Rack Module HDMI HDBaseT KVMX 45-600 Series: KVM, Sound Toslink IN/OUT, Remote |
| 60-00-6934 | 45-600 | M3199-994939 | Rack Module HDMI HDBaseT KVMX 45-600 Series: KVM |

This brochure may be subject to change without prior notice.