



19" Rack 3 HU



19" Rack 1 HU



Single Slot Unit



Single Slot Unit
DIN-mount

Rack System

Fibersystem's enterprise-class rack system is designed to provide a flexible, manageable system for the Fibersystem card modules.

The Rack 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 card modules
- 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

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



Fibersystem 19" Rack shelf for Single Slot Unit

- Rack shelf for 3 Single Slot Units



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



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



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

Operating system

QNX RealTime OS version 6.5.0 to ensure stable operation

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 (Network Time Protocol) 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

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

Environmental

Temperature range Operating: 0 to +50 °C. Storage: -40 to +70 °C
Relative humidity Operating: 5 to 95 %RH. Storage: 5 to 95 %RH 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 100 VAC - 240 VAC, 50-60 Hz
AC connector IEC 320, 3 pin

Environmental

Temperature range Operating: +10 to +40 °C. Storage: -40 to +70 °C.
Relative humidity Operating: 5 to 95 %RH. Storage: 5 to 95 %RH 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

Part number	Model	M-number	19" Rack System and One slot casing
60-00-6918	50-502	M3196-001800	Rack 19" 3 HU with 2 x 150 W redundant power supplies, 16 card slots, with SNMP
60-00-6944	50-502	M3196-992819	Rack 19" 3 HU with 2 x 150 W redundant power supplies, 16 card slots, without SNMP
60-00-7392	50-502		Rack 19" 1 HU with 2 x 45 W redundant power supplies, 3 card slots, with SNMP
60-00-7391	50-502		Rack 19" 1 HU with 2 x 45 W redundant power supplies, 3 card slots, without SNMP
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)
60-00-7480	50-502		Single Slot Unit DIN-mount with built in 15 W power. 24 VDC (nom 9-36)
60-00-6505	50-502	F3785-000084	Rack shelf 19" 1 HU, 1-3 Single Slot Unit

Rack Modules (Fibre Optical)

Part number	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 4 port 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 RS-232 Transceiver RS-232 four channel
60-00-7359	42-105	F3785-000082	Rack Module USB - Hub 3 ports + RS-232 four channel LC
60-00-7360	42-107	M3199-621010	Rack Module USB - 4 x RS-232 four channel LC
60-00-7361	23-421	M3196-001830	Rack Module RS-232 SM Transceiver RS-232 four channel
			Data Diode Rack Module
60-00-7303	50-800	M3196-661110	Data Diode Rack Module 1 Gbps Secure (Tempest Level A/ RÖS U1)
60-00-7304	50-800	M3196-661010	Data Diode Rack Module 100 Mbps 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

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