



Overview

The IFS IP Network Management Module enables users to remotely manage, configure and monitor the health and status of any DF modules and power supplies inserted into the IFS Smart Rack over an Ethernet/IP network.

Embedded firmware within the module provides remote monitoring through an easy to use GUI interface via a standard web browser. This functionality provides instant verification of the status of the digital fiber system. Alarms can be instantly evaluated, allowing an operator or technician to react quickly and effectively.

If several IFS SmartRacks are located on the same private LAN (Ethernet) network, system administrators and authorized security professionals can access all Smart Racks from any computer on the same network.

As an added security feature, the system is fully password protected and provides multiple user access levels and privileges.

IP Network Management Module System

Standard Features

Hardware

- 10Base-T/100Base-TX Ethernet controller
- Contact closure controlled by an external input or via software
- Hot-pluggable design
- Reset switch

LED Indicators

- Network Activity
- Network Speed
- Contact Closure Status
- Power

Connectors

- RJ-45 Ethernet port
- 5-pin screw-terminal for Contact closure
- Power/communication bus

Firmware

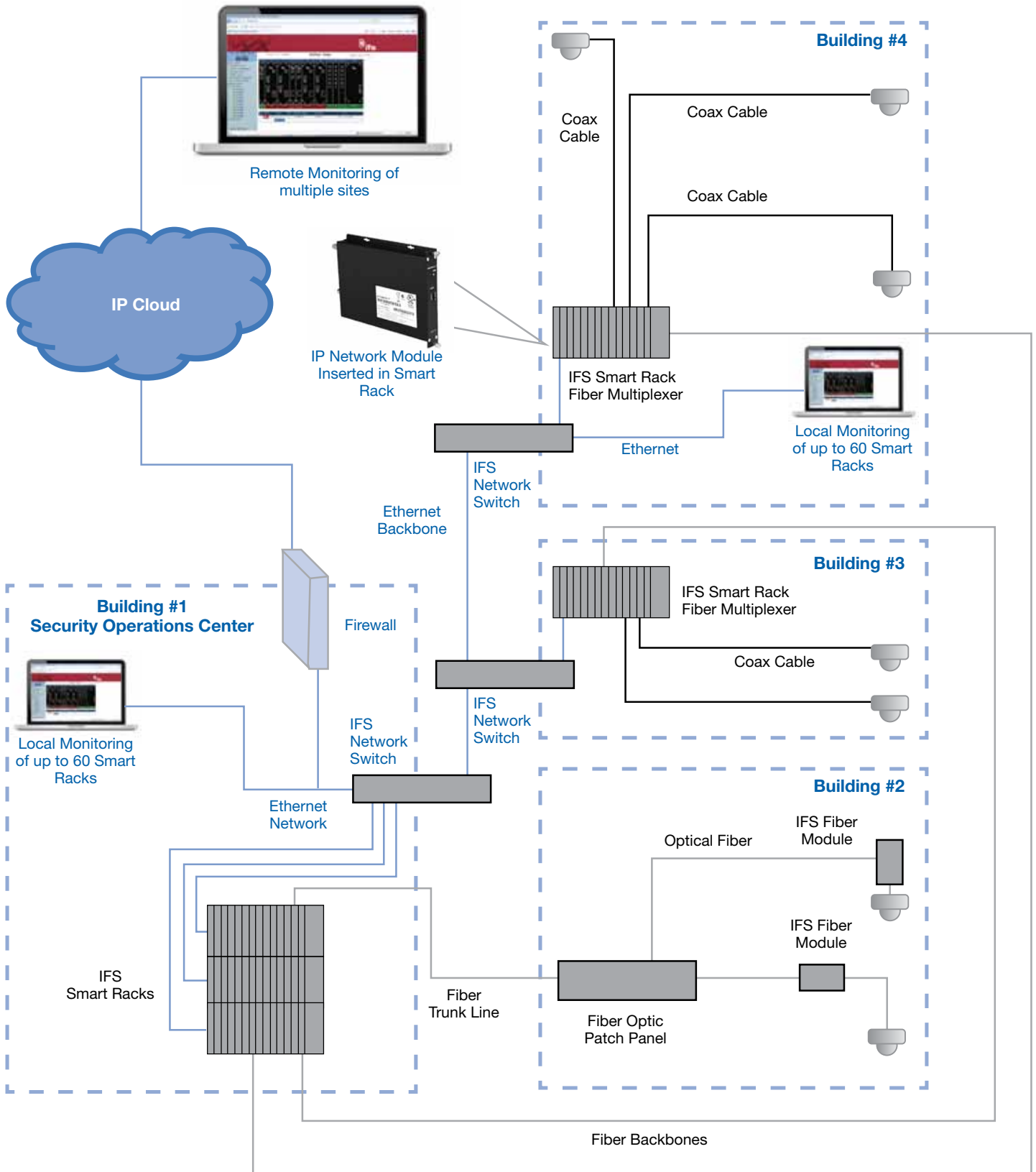
- No software licensing
- Easy to use browser-based interface
- Provides intelligent system programming, monitoring and management
- Real-time system status using a graphical display
- Alarm event logging and export capability
- Up to 60 IFS Smart Racks can be monitored per local network and unlimited sites can be accessed remotely.
- Built-in administrative tools for configuration backup, restore and upgrading of firmware.
- Can be used as a trouble-shooting tool

Warranty

- Lifetime Warranty



IFS Network Management System



Simple Programming

Through an easy to use browser-based interface, the IFS IP Network Management System provides simple programming of over 18 critical operating parameters within various areas of the system, such as:

- Optical performance
- Module signal transmission
- Rack system status
- Individual alarm levels

Configurations can be duplicated across multiple modules reducing installation time and programming errors.

In addition to the communication modules, power supply parameters, such as voltage, current, temperature, fan speed and local alarm enabling can be programmed as well.



Remote Health and Status Monitoring

Once the upper and lower limit parameters have been programmed, the health and status can be easily monitored for each module via a graphical view of each IFS Smart Rack System status such as:

- Optical unlock
- Signal loss
- Voltage
- Card loss
- Temperature
- and more!

The system continuously monitors all system and device parameters and logs any events that exceed the programmed limits in the alarm log.

The system maintains a complete history of alarm events in the alarm log which can be viewed remotely enabling the technician to evaluate the problem even before making a service call.



Management and Reporting

The IFS IP Network Management System also provides complete global user and device management. Users can be added, deleted or edited and given different access levels and privileges within the system.

The GUI can be set up to easily view the status of up to 60 IFS Smart Racks per local network with a single click. System back-up, restore and firmware upgrades can be performed remotely saving the integrator maintenance time and reduced service calls.

The alarm log can be easily exported in .csv format for further analysis with spreadsheet or database software for maintaining accurate records of site history performance and service.



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Specifications

Ethernet

Standards	IEEE802.3x, IEEE802.3u
Data Rate	10Mbps/100Mbps
Cabling	10/100Base-T (Cat5 or better)
Maximum Distance	100 meters
Default IP Address	192.168.1.100

Contact Closure

Number of Channels	1
Direction	Bi-directional
Input Type	TTL Logic (positive)/Dry Contact
Output Type	Default: Normally Open
Dry Contact Output Rating	110 VDC/30W; 125VAC/62.5VA max.
Contact Output Response Time	2 mSec.

LED Indicators

Network Activity	Data Activity/Amber
Network Speed	10Mbps/off; 100Mbps/Green
Contact Closure Input	Open/Off; Closed/Green
Contact Closure Output	Open/Off; Closed/Green
Power	On/Green

Connectors

Ethernet	R-J45
Contact Closure	5-pin screw terminal block
Power (rack-mount)	10-pin smart bus connector

PC Requirements

Ethernet Connector	RJ-45
Ethernet Speed	10/100Mbps
Operating System	Windows XP, Vista or 7
Web Browser	Internet Explorer 6, 7 or 8

Electrical & Mechanical

Operating Voltage	12VDC
Current Draw	500mA max.
Dimensions (in./cm.) (HwWxD)	1.0 x 6.2 x 9.1 in. / 2.54 x 15.84 x 23.18 cm (1-slot)
Weight	1.6lbs. / 0.74kg

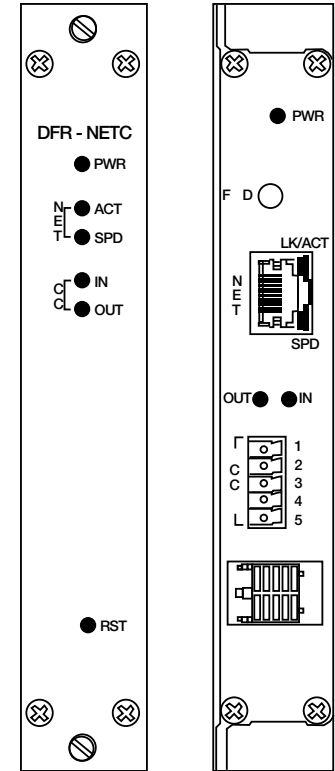
Environmental

MTBF	>100,000 hours
Operating Temperature	0 ~ +60
Storage Temperature	-40 ~ +85
Relative Humidity	0 to 95% non-condensing
Regulatory Compliance	FCC, UL, CE, C-Tick, FDA

Ordering Information

Part Number	Description
DFR-NETC	Network Management Module for IFS Smart Rack

Front and Rear Panels



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