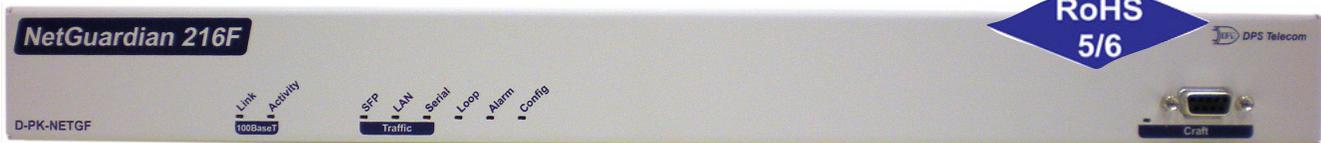


NetGuardian 216F

Featuring 10/100/1000Base T Ethernet and SFP Fiber Support



With 2 SFP fiber interfaces, an integrated 1000BaseT Ethernet switch and SNMPv3 support, the NetGuardian 216F can virtually handle every monitoring need.

NetGuardian 216F Benefits

- **Two SFP Fiber Ports (1000Base-X)**
- **Integrated 10/100/1000BaseT Ethernet Switch - Provide connectivity to far-end devices**
- **LAN access for 7 network elements**
- **Supports the Building Access System - Control up to 8 doors per NetGuardian**
- **Remote access to serial equipment with up to 5 terminal server ports**
- **Support for SNMP v1, v2c Informs, v2c Traps and v3 permits robust message delivery**
- **Industrial temperature rating to withstand extreme weather**
- **Firmware upgradeable via LAN**
- **16 discrete alarms, 16 ping alarms, 8 analog alarms (4 general, 2 temp, 2 batt) and 2 control relays**
- **Web interface: Monitor without a master**
- **24/7 e-mail and pager notifications**
- **Ability to expand to discretes and control relays with NetGuardian Expansion Units**
- **Free lifetime firmware upgrades**
- **30-DAY NO-RISK MONEY-BACK GUARANTEE**

Overview

For monitoring your smaller remote enclosure sites, the NetGuardian 216F provides the power you need in a compact unit. This powerful RTU is a LAN-based, fiber-supported alarm collector that provides network managers with remote visibility of their network elements. With 2 SFP fiber ports, LAN access for 7 network elements, 16 discrete alarms, 32 ping alarms, 7 analog inputs (4 general, 1 temp, 2 batt), and 2 controls, this versatile unit is the ideal network monitoring solution for outdoor enclosures in areas without existing LAN.

When a problem occurs, the NetGuardian 216F notifies personnel with a complete status message. Notification types include SNMP Traps, text message, TCP text, T/MonXM, E-mail, and paging through e-mail. The unit also stores up to 100 events in its event log.

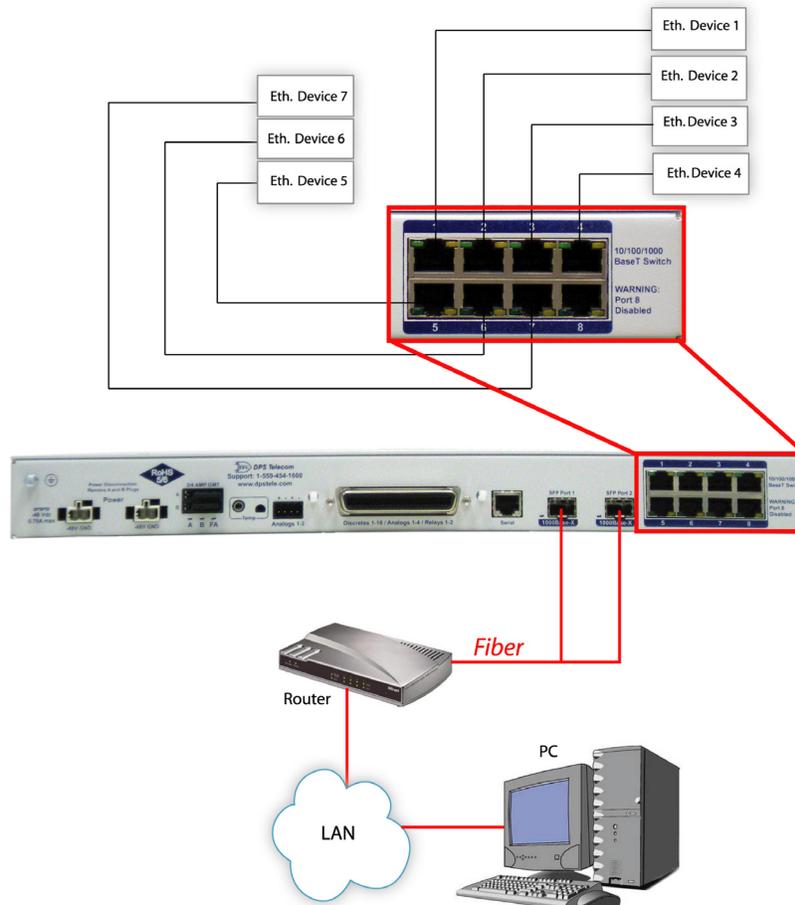
In addition to network and environmental alarms and controls, the NetGuardian also includes terminal server functionality, allowing remote Telnet access to an external serial device. The NetGuardian is available in 1 and 5 port models.

The NetGuardian 216F is easy to install, with connectors for all serial and LAN ports, as well as alarm, analog, and control wiring. A back panel with all wire wrap connections is also available for other installation options. The unit mounts quickly in either 19" or 23" equipment racks while occupying only one rack unit of space.

Provisioning of the NetGuardian 216F can be easily accomplished using any Web Browser or generic TTY terminal. This can be done on site, using the front panel craft port, or remotely via LAN or dial-up modem. The entire configuration is saved on the NetGuardian 216F where it remains secure through power outages in non-volatile RAM.

Additional options include an external temperature sensor and a wire-wrap back panel for alternate connectivity options.

The versatility and reliability of the NetGuardian 216F make it an excellent choice for both inside- and outside-plant operations.



NetGuardian 216F topology of fiber interfaces and Ethernet switch.

Reach-Through Port

The NetGuardian's reach-through serial port(s) permits Telnet sessions to connect to the administration port of external network components. This gives your staff the ability to assess and repair your network faster without having to be physically present at the network site. It is also cost-effective because there is no need to purchase a dedicated terminal server. The NetGuardian is also space-effective, combining all of these powerful features into a single unit.

These ports can be used with the NetGuardian DX chassis to expand discrete inputs and relay outputs.

Alarm Reporting

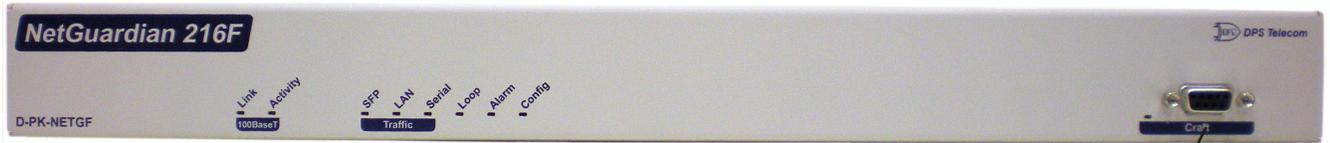
The NetGuardian 216F reports discrete alarms, relay status, analog alarms, and network equipment failures over the LAN to an SNMP manager or to the DPS Telecom T/Mon NOC Network Alarm Management System.

- **SNMP Trap Reporting** - The NetGuardian can report directly to an SNMP Manager and will respond to SNMP queries and commands. Multiple SNMP managers at multiple IP addresses are also supported may be achieved via LAN.
- **SNMP Informs** - NetGuardian 216F supports SNMP v2c, SNMPv3, and the SNMP INFORM command, which permits robust delivery of alarm notification to your SNMP manager.
- **T/Mon NOC Support** - The NetGuardian 216F can also report to a T/Mon NOC Network Alarm Monitoring System via LAN or T1.

24/7 e-mail and paging alerts

Out of the box, the NetGuardian 216F supports 24/7 e-mail and paging (through e-mail) reporting. Send alarms directly to maintenance technicians in the field, even when no one's in the office.

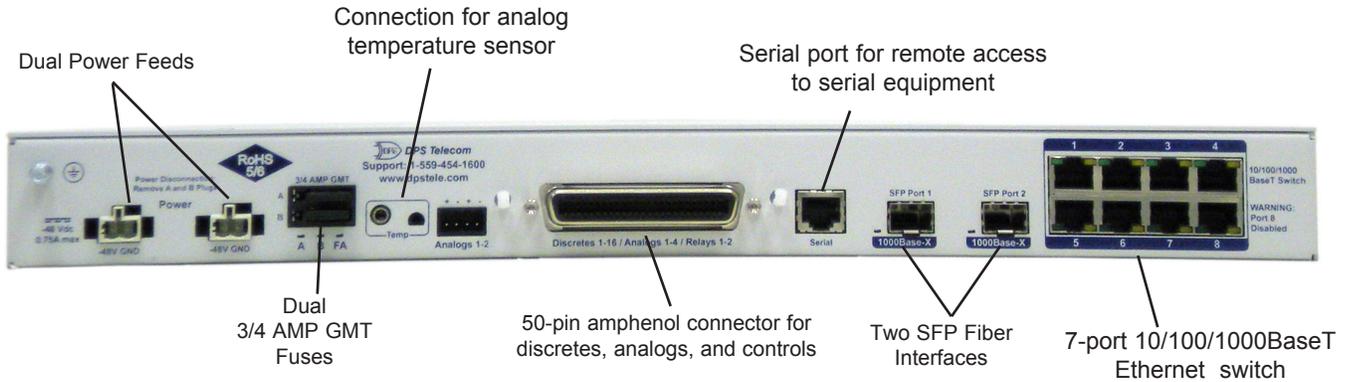
Front and Back Panel Overview



LED status indicators for 100BaseT: Link and Activity

LED status indicators: SFP, LAN, Serial, Loop, Alarm and Config

Craft port for direct PC connection



Dual Power Feeds

Connection for analog temperature sensor

Serial port for remote access to serial equipment

Dual 3/4 AMP GMT Fuses

50-pin amphenol connector for discretes, analogs, and controls

Two SFP Fiber Interfaces

7-port 10/100/1000BaseT Ethernet switch



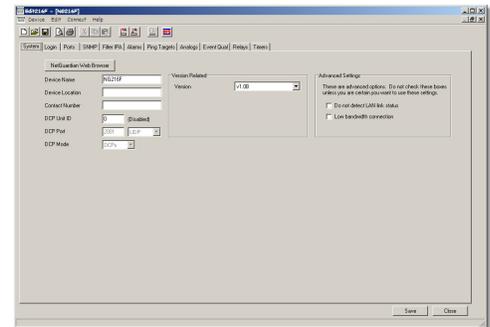
View and configure the NetGuardian via a Web Browser over LAN.

Stand-alone monitoring via Web Interface

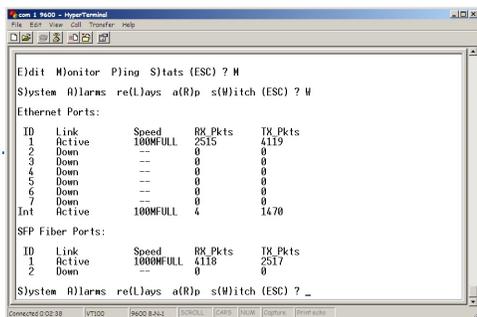
The NetGuardian offers a Web Browser interface for easy and convenient alarm management and unit configuration via Internet or Intranet. The user friendly interface allows complete access to all the functions of the unit and enables the user to quickly set up alarm point descriptions, view alarm status, issue controls, and configure paging information, as well as additional options.

Edit 216F

Edit216F allows you to create configuration files without being connected to the NetGuardian. Download the files to the NetGuardian via LAN, or upload current files for backup.



Create configuration files offline for easy editing and saving with Edit216F



NetGuardian 216F TTY interface.

TTY Interface

In addition to the Web Browser interface, the NetGuardian provides a menu-style TTY interface for basic configuration, which may be accessed via the craft port or in a Telnet session via LAN.

Accessories

2 NetGuardian Expansion Options

The NetGuardian DX provides an additional 48 discrete alarm point per chassis. Up to 3 DX units can be daisy-chained off one NetGuardian 216F, providing a total of 160 alarm points.
Part Number: D-PC-293-10A-04

Unit	Capacity
Base NG	16
1 DX	64
2 DX	112
3 DX	160

The NetGuardian 864DX G5 is another option to achieve discrete and analog expansion. Each chassis adds 64 discrete alarm points, providing a total of **208** when 3 NetGuardian 864DX G5 units are daisy-chained.

Part Number: D-PC-DX864-12001

Unit	Capacity
Base NG	16
1 DX	80
2 DX	144
3 DX	208

Wire-Wrap Back Panel

The wire-wrap back panel offers alternate connectivity options for discrete alarms, analog alarms, and control relays.



External Temperature Sensor



D-PR-998-10A-07

With a 10-ft lead, the external digital temperature sensor allows placement at a specifically targeted critical zone.

Building Access System

The Building Access System gives network alarm managers the ability to control and regulate door entry access.



D-PK-ECUG3

Door Entry Options:



Proximity Reader: The weather-proofed proximity reader is mounted outside the building. Designed to withstand a wide temperature range, the ECU supports +12V, 26-bit or 37-bit Wiegand card readers.



Keypad: The environmentally sealed keypad is also designed to withstand extreme heat and cold, The metal hood adds extra security from prying eyes. No amount of tampering can cause unauthorized access.

Specifications

Protocols: SNMPv1, v2c, and v3; DCPx, DCPf, TRIP, SMTP, TAP

Discrete Alarm Inputs: 16 (Expandable to 160 with NetGuardian DX chassis)

Control Outputs: Form A or Form C

Max. Voltage: 60 VDC/120 VAC

Max. Current: 3/4 Amp, AC/DC

Ping Alarms: 16

Analog Alarms: 8 (4 general, 2 temp, 2 battery)

Input Range: -94 to 94 VDC or 4 to 20 mA

Operating Temperature: -22° to 158°F (-30°- 70°C)

Operating Humidity: 0% to 95% non-condensing

Fuses: 3/4 Amp GMT for power inputs

Power Input: -48VDC (-40 to -70VDC)

Current draw: 375mA max at -48 VDC

Dimensions: 1.75" H x 17" W x 12" D (4.5 cm x 43.2 cm x 30.5 cm)

Weight: 4 lbs. 3 oz. (1.9 kg)

Mounting: 19" or 23" rack

Interfaces: 2 SFP fiber interfaces (1000Base-X)
 7 RJ45 10/100/1000BaseT Ethernet ports
 1 DB9 RS232 Craft port
 1 RJ45 Yost RS232 port
 4 RJ45 Yost RS232 ports (Optional build)
 1 50-pin amphenol connector (discretes, controls and analogs)
 1 4-pin screw connector (for external temperature sensor)
 1 stereo input jack (for external temperature sensor)

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