

NetGuardian 216T

The Versatile Remote with FrameRelay and PPP/T1 Support



With FrameRelay/T1 support, an integrated 7-port hub, industrial temperature rating, and powerful alarm collection and reporting, the NetGuardian 216T can effectively monitor outdoor enclosures and provide Ethernet to sites without existing LAN.

NetGuardian 216T Benefits

- **FrameRelay and PPP/T1 support for added versatility and responsiveness to dynamic network growth**
- **LAN access for 7 network elements**
- **Remote access to serial equipment with up to 5 terminal server ports**
- **Support for SNMP v2c Informs, v2c Traps and v1 Traps permits robust message delivery**
- **Industrial temperature rating**
- **Firmware now upgradeable via LAN or T1 WAN**
- **16 discrete alarms, 32 ping alarms, 7 analog alarms (4 general, 1 temp, 2 batt) and 2 control relays**
- **Web interface: monitor without a master**
- **24/7 notification via email and alphanumeric pager ensures you will never miss a critical alarm**
- **Ability to expand to 160 discretes/26 control relays with NetGuardian Expansion Units**
- **Free lifetime firmware upgrades**
- **2-year hardware warranty**
- **30-DAY NO-RISK MONEY-BACK GUARANTEE**

Overview

The NetGuardian 216T is a powerful, compact LAN- and T1-WAN-based alarm collector that provides network managers with remote visibility of their network elements. With FrameRelay/T1 support, 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 216T notifies personnel with a complete status message. Notification types include SNMP Traps, text message, TCP text, T/MonXM, E-mail, and paging through email. The unit also stores up to 100 events in its event log.

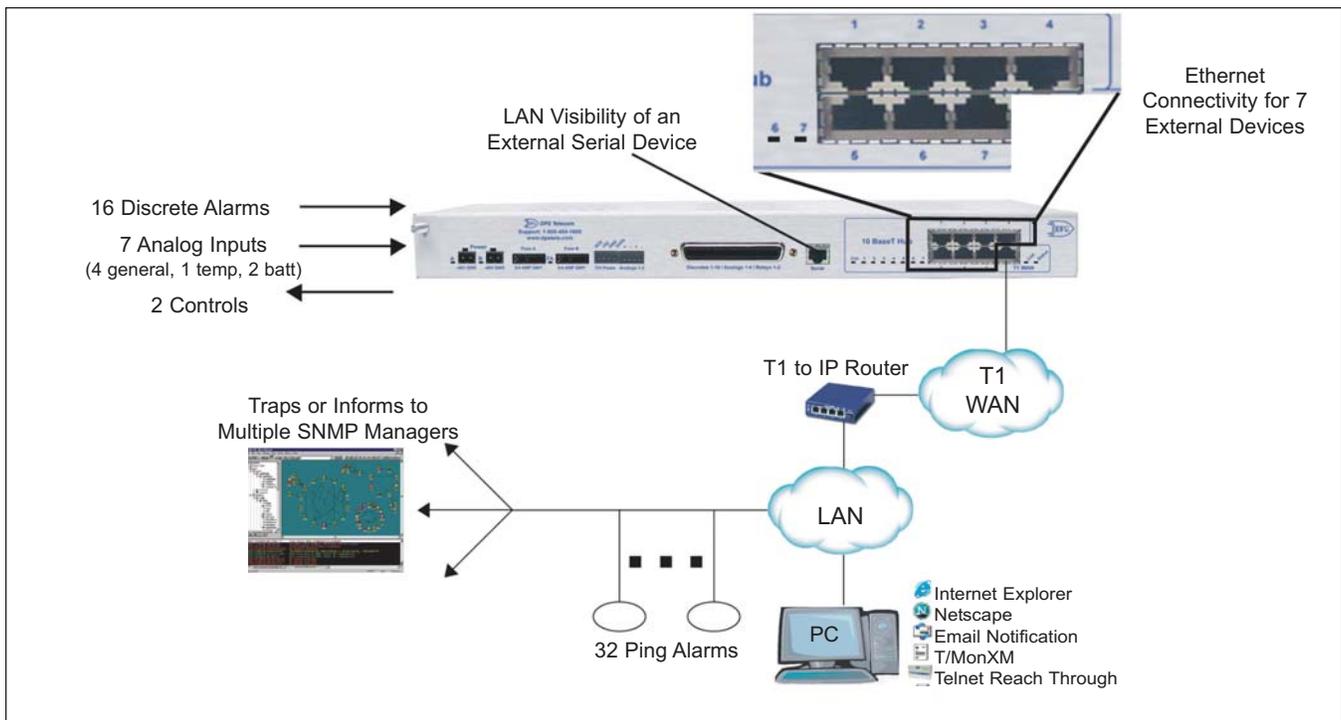
In addition to network and environmental alarms and controls, the NetGuardian also includes terminal server functionality, allowing remote Telnet access to an external serial device. The NetGuardian is available in 1 or 5 port models.

The NetGuardian 216T 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 216T 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, T1 WAN, or dial-up modem. The entire configuration is saved on the NetGuardian 216T 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.

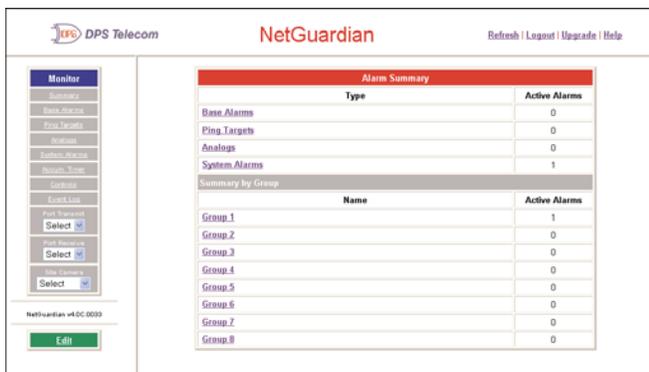
The versatility and reliability of the NetGuardian 216T make it an excellent choice for both inside- and outside-plant operations.



In addition to LAN, the NetGuardian 216T supports FrameRelay/T1, providing detailed monitoring and Ethernet connectivity at remote sites. It also supports remote Telnet connections to an external serial device.

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.



View and configure the NetGuardian via a Web Browser over LAN or T1 WAN.

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 or T1 WAN.

Dual-Mode Operation

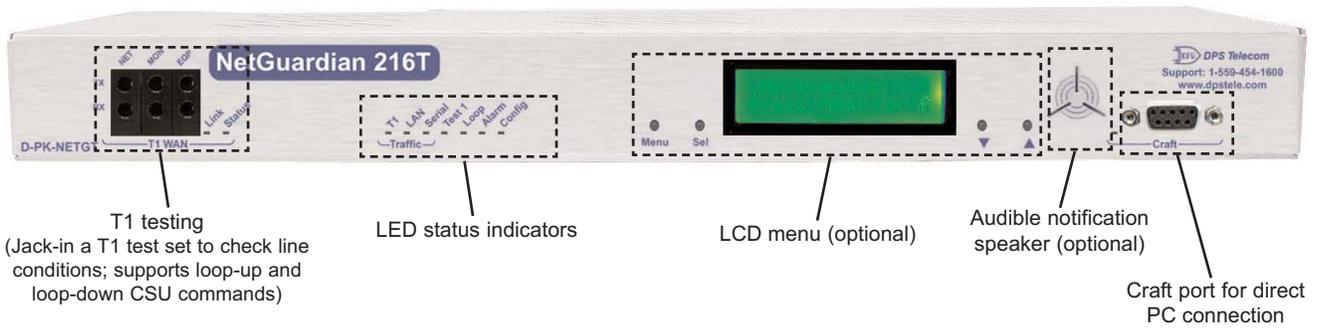
The NetGuardian 216T supports both Ethernet and FrameRelay/T1 WAN connectivity for both outside- and inside-plant applications.:

- **WAN Mode** - When no existing LAN infrastructure is available at the remote site, the NetGuardian connects via T1, extending LAN to the site. This 1.544 Mbps of Ethernet connectivity is usable by up to 7 external devices connected to the NetGuardian's hub.
- **LAN Mode** - When the network expands to reach the NetGuardian, the same remote can connect via LAN, providing the same monitoring benefits without require additional purchasing.

Alarm Reporting

The NetGuardian 216T reports discrete alarms, relay status, analog alarms, and network equipment failures over the LAN or T1 WAN 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 by the NetGuardian. Communication may be achieved via LAN or T1.
- **T/Mon NOC Support** - The NetGuardian 216T can also report to a T/Mon NOC Network Alarm Monitoring System via LAN or T1 WAN.



The NetGuardian front panel provides T1 testing, audible notification (optional), an LCD menu (optional), and LED status indicators for simple, detailed, and fast diagnosis.

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.

SNMP v2c Informs for robust message delivery

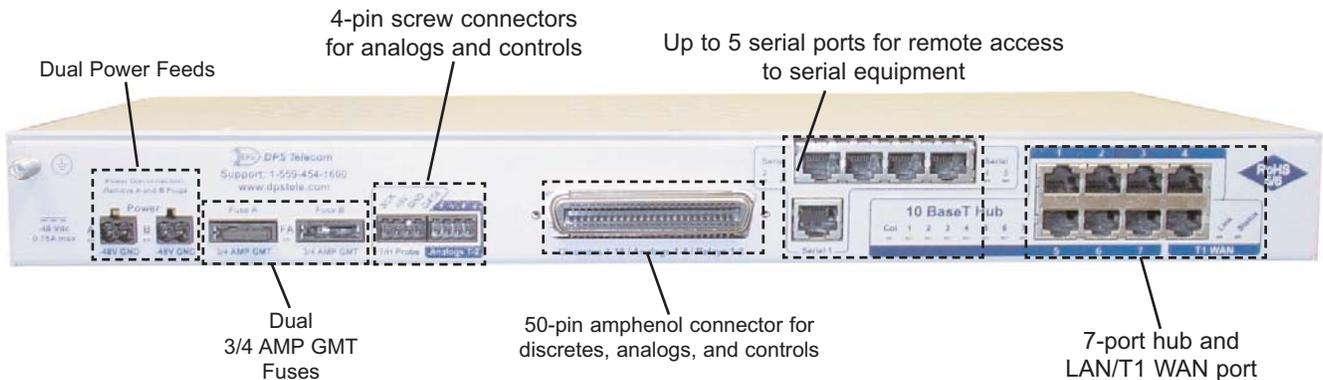
The NetGuardian 216T supports SNMP v2c Informs, as well as SNMP v2c and v1Traps. SNMP v2c Inform messages provide confirmed delivery of alarms. When an SNMP manager receives an Inform message, it sends a confirmation response to the SNMP agent. If the agent doesn't receive the confirmation response, it resends the Inform.

24/7 email and paging alerts

Out of the box, the NetGuardian 216T supports 24/7 email and paging (through email) reporting. Send alarms directly to maintenance technicians in the field, even when no one's in the office.

Edit 216T

Edit216T allows you to create configuration files without being connected to the NetGuardian. Download the files to the NetGuardian via LAN or T1 WAN, or upload current files for backup.



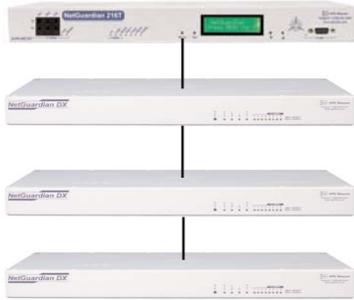
NetGuardian rear view featuring easy-to-use connectorization.

Accessories

NetGuardian Expansions

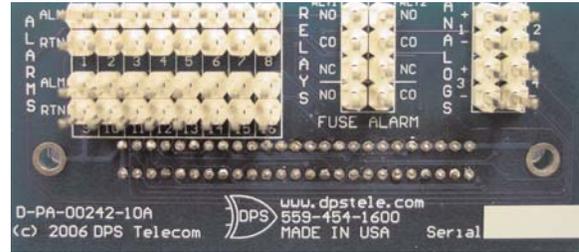
Up to three NetGuardian 48 discrete point expansion cards can be added to monitor sites with higher point capacity.

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



Wire-Wrap Back Panel

The wire-wrap back panel offers alternate connectivity options.



External Temperature Sensor

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



Specifications

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
Power Input:	-48VDC (-40 to -56VDC)
Current draw:	250mA
Interfaces:	1 RJ45 for T1 WAN 1 T1 WAN access jack panel 7 RJ45 10BaseT Ethernet ports 1 or 5 RJ45 Yost RS-232 ports 1 DB9 RS-232 Craft port 1 50-pin amphenol connector (discretes, controls, and analogs) 1 4-pin screw connector (ext. temp. sensor) 1 4-pin screw connector (analog)

Protocols:	SNMPv1, SNMPv2c, DCPx, DCPf, SMTP
Discrete Alarm Inputs:	16
Control Outputs:	2 FormC
Max. Voltage:	60 VDC/120 VAC
Max. Current:	3/4 Amp, AC/DC
Ping Alarms:	32
Analog Alarms:	7 (4 general, 1 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:	2 (3/4 Amp GMT) for power inputs

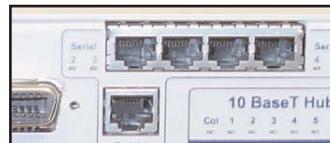
Alternate Configuration



With Front-Panel LCD and Audible Notification



With 1 Terminal Server Port



With 5 Terminal Server Ports

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