NetGuardian 832A G4

With 8 serial ports, two separate Ethernet cards, SNMP v2c support, powerful alarm collection and versatile alarm reporting via SNMP Trap, email and pager, the NetGuardian 832A G4 can handle any alarm monitoring need.

NetGuardian 832A G4 Benefits

Now Featuring

- **Dual Ethernet for multiple network support**
- **8-RJ45 110K max baud serial port terminal server provides LAN Telnet access to remote equipment**
- **RoHS 5 compliant to meet overseas requirements**
- **Supports SNMP v2c Informs, v2c Traps and v1 Traps permits robust message delivery**
- **Firmware now upgradeable via LAN**
- **Alarm Point Grouping**
- **PPP Functionality**
- **32 discrete alarms, 32 ping alarms, 8 analog alarms and 8 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 176 discretes points with NetGuardian Expansion Units**

Overview

The NetGuardian 832A G4 is a powerful, compact LAN-based alarm collector that provides network managers with remote visibility of their IP network elements. With 32 ping alarms, 32 discrete alarms, 8 analog inputs, and 8 controls, this versatile unit is the ideal network monitoring solution.

If an element fails to respond to successive pings, or if anything goes wrong with the environmental controls, the NetGuardian 832A notifies personnel using a variety of methods with a complete status message. Notification types include SNMP Traps, alphanumeric pager, numeric pager, text message, TCP text, T/MonXM, and 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 acts as a terminal server for 8 serial ports, thereby eliminating the need for dedicated circuits and the recurring monthly costs associated with such transports.

The NetGuardian 832A is easy to install, with connectors for all serial and LAN ports, alarm, analog, and control wiring. A hinged 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 832A 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 (TELNET) or dial-up modem. The entire configuration is saved on the NetGuardian 832A where it remains secure through power outages in non-volatile RAM.

Additional options include a built in sensor power supply, dual power feeds, and integrated temperature and battery sensors.

The versatility, capacity, and reliability of the NetGuardian 832A are the reasons why it is the standard for network alarm monitoring needs.
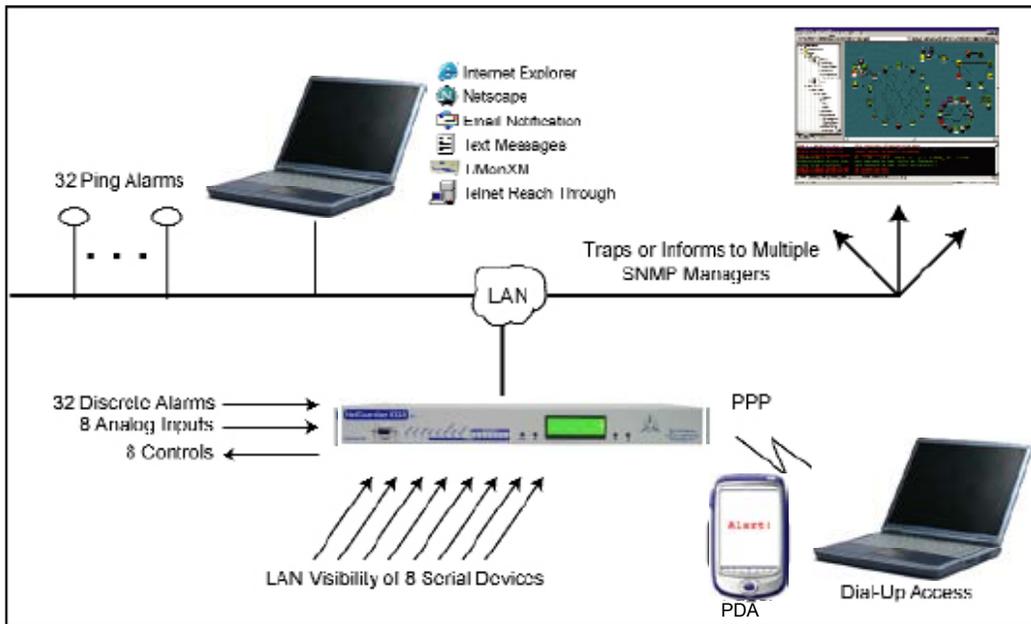
The NetGuardian 832A monitors IP aware devices' network presence as well as interfaces discrete alarm points and controls at network sites.

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.

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, dial-up port or Telnet session via LAN.
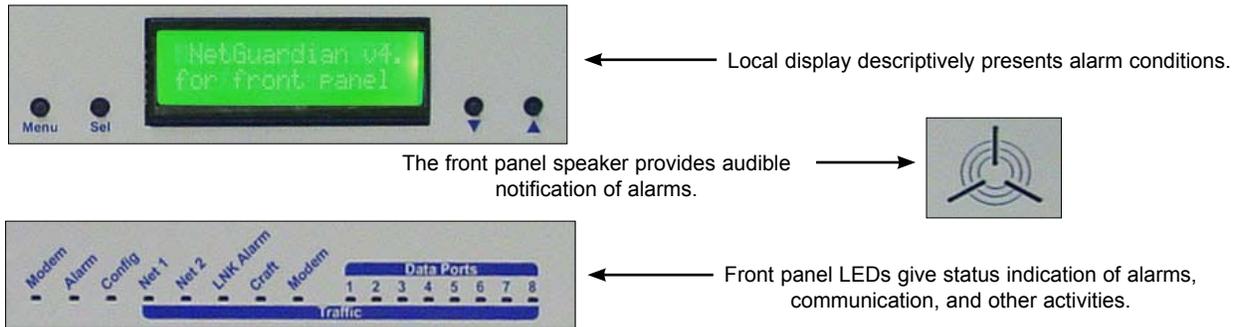
Alarm Reporting

The NetGuardian 832A reports discrete alarms, relay status, analog alarms, and network equipment failures over the LAN/WAN to an SNMP manager or to the DPS Telecom IAM-5 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 PPP (dial-up) or LAN.

- *T/Mon NOC Support* - The NetGuardian 832A can also report to a T/Mon NOC Network Alarm Monitoring System via LAN and dedicated serial communications links. In case of primary path failure, the system will automatically fall back to the alternate path dial-up, ensuring alarm data won't be lost when it's needed most. The modems can also be used as the primary communication method for "Off Net" sites.

Reach-Through Ports

The NetGuardian's reach-through ports permit multiple Telnet sessions and a dial-up session to connect through to serial ports connected to the administration ports of your network equipment. 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.

Local display descriptively presents alarm conditions.

The front panel speaker provides audible notification of alarms.

Front panel LEDs give status indication of alarms, communication, and other activities.

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

24/7 pager and email alerts

Out of the box, the NetGuardian 832A supports 24/7 pager and email reporting. Send alarms directly to maintenance technicians in the field, even when no one's in the office.

Dual NIC security model

For enhanced security, the NetGuardian 832A G4 has two separate NICs. This allows you to connect the NetGuardian-16S to two separate networks, and allows users on separate networks to access the same unit.

SNMP v2c Informs for robust message delivery

The NetGuardian 832A 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.

Alarm Point Grouping

The NetGuardian can be assigned to one of 8 groups, which are identified with a user-defined label. Some ways you can use Alarm Point Grouping include alarm severity levels, custom virtual alarms, flexible custome derived controls, and granular pager and email notification.

NG Edit 4

NG Edit4 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.

Optional Features

The following features are available for the NetGuardian:

- *NEBS Level 3 Certification* - NEBS certification ensures that the NetGuardian has undergone rigorous tests including electrical, magnetic, safety, and mechanical.
- *Built-in sensor power supply* - Eliminates the need for an additional power supply for your sensors –12 or –24V).
- *Dual power feeds* - Provides an alternate power input in the event one power source fails.
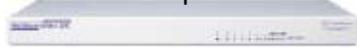- *Integrated temperature and battery sensors* - Eliminates the cost and setup time of installing external sensors.
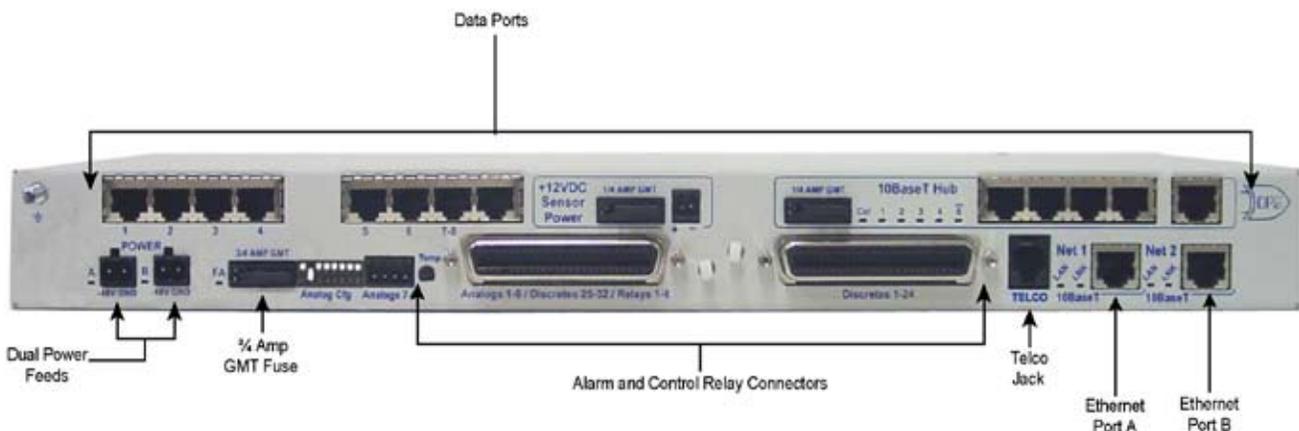
NetGuardian rear view featuring easy-to-use connectorization.

Accessories

NetGuardian Expansions

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

Unit	Capacity
Base NG	32
1 DX	80
2 DX	128
3 DX	176

Hinged Back Panel

The hinged wire wrap back panel offers alternate connectivity options.

GLD Support

The optional GLD (General LCD Display) can be connected to the NetGuardian providing remote audible notification and LCD viewing and interaction. Up to three GLDs can be daisy-chained to the NetGuardian.

Building Access System

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

Specifications

Dimensions:	1.75" H x 17" W x 12" D (4.5 cm x 43.2 cm x 30.5 cm)	**Discrete Alarm Inputs:**	32
Weight:	4 lbs. 3 oz. (1.9 kg)	**Control Outputs:**	8 FormC
Mounting:	19" or 23" rack	**Max. Voltage:**	60 VDC/120 VAC
Power Input:	–48VDC (–40 to –56VDC)	**Max. Current:**	1 Amp, AC/DC
	(Optional) –24 VDC (–18 to –36 VDC),	**PPP:**	Permanent, Backup, or On-demand
	(Optional) Wide Range –24/–48 VDC (–18 to –72 VDC)	**Ping Alarms:**	32
		Analog Alarms:	8
Current draw:	200mA	**Input Range:**	–94 to +94 VDC or 4 to 20 mA
Interfaces:	8 RJ45 Yost RS-232 ports	**Operating Temperature:**	32° to 140°F (0°- 60°C)
	2 RJ45 Ethernet 10baseT port	**Operating Humidity:**	0% to 95% non-condensing
	1 RJ11 Telco jack	**Storage Temperature:**	-22° to 176°F (-30°- 80°C)
	2 50-pin amphenol connectors (discretes, controls, and analogs)	**Storage Humidity:**	0% to 95% non-condensing
Protocols:	SNMPv1, SNMPv2c, or DCP, TAP (Alpha) paging, and Numeric paging	**Fuse:**	3/4 Amp GMT for power inputs 1/4 Amp GMT for external sensors and integrated Ethernet hub
Modem:	33.6K internal		

Ordering Options

NetGuardian 832A	32 discrete alarms, 32 ping alarms, 8 analog alarms, 8 control relays, 8 serial ports
NetGuardian-C	16 discrete alarms, 16 ping alarms, 2 analog alarms, 2 control relays, 4 serial ports
NetGuardian-CS	16 discrete alarms, 16 ping alarms, 2 analog alarms, 2 control relays, 8 serial ports
NetGuardian-CA	16 discrete alarms, 16 ping alarms, 4 analog alarms, 2 control relays, 8 serial ports
NetGuardian Migration Pkg	Feature code that permits easy field upgrades from a "C" to a full version

Available in: –48VDC,–24VDC, +24VDC, and wide range versions

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