

DELL™ UPS NETWORK MANAGEMENT CARD



**MONITOR AND CONTROL UNINTERRUPTIBLE POWER SUPPLIES REMOTELY
USING THE WEB OR NETWORK MANAGEMENT SYSTEMS.**

MANAGEMENT AND CONTROL OF YOUR UPS PRODUCTS

With the growth in distributed computing, companies' computing and communication resources reside in multiple remote locations—and so do the uninterruptible power supplies (UPS) that protect them. The Dell Network Management Card (NMC) enables you to monitor and control your UPS remotely from Web browsers, the Dell UPS Management Software, or industry-standard network management systems. The Dell NMC connects your Dell UPS to an IP network and addresses a broad range of models, real-time communications (Web or SNMP), and network rates (10 Mbps or 100 Mbps).

REAL-TIME MONITORING

Gain up-to-the-minute assurance that computing and communication systems are receiving the continuous, clean power they demand. Through easily navigable Web pages, network administrators can check system status and view critical meter information, such as input and output voltage, UPS load, battery voltage and condition at any time.

VISIBILITY ON THE WEB

The Dell NMC supports standard Web browsers, such as Internet Explorer®, enabling systems managers to stay informed even when away from their mission-critical systems.

INTEGRATION WITH STANDARD SNMP MANAGEMENT SOFTWARE

Industry-standard network management systems (NMS) allow monitoring of power conditions across the enterprise and management of remote UPS systems and the operating systems they protect.

AUTOMATIC NOTIFICATION OF ALARM CONDITIONS

Alert notifications can be sent to designated recipients using e-mail, mobile phone¹ or pager¹, and SNMP traps to an NMS or network messaging to customer-provided software. Each recipient has the option of receiving real-time event messages, daily status reports based on criticality (containing data and event log files), or a combination of routine reports and event notifications.

FULL SUPPORT FOR UPS MIB AND BEYOND

For monitoring and managing remote UPSs through an NMS, Dell NMC supports not only the standard UPS Management Information Base (MIB) SNMP structure, but also Dell extensions to that MIB structure which enable advanced functions not addressed in the RFC-1628 standard.

REMOTE ADMINISTRATION OF UPS

From a Web browser, a system administrator can shut down or reboot a remote UPS and set up scheduled shutdowns of UPS products and associated servers. The ability to shut down or restart systems without a site visit dramatically reduces field service expense and response time. Scheduled shutdowns can be devised to conserve power or tighten security during specific time periods, such as evenings or weekends.

ORDERLY SHUTDOWN OF REMOTE OPERATING SYSTEMS

When alarm conditions persist for a specified period of time, the Dell NMC initiates orderly shutdown of affected equipment. Using Dell UPS management software, bundled free with every Dell UPS, several hundred computers can be gracefully shut down without operator intervention. This capability ensures data integrity during a power outage that exceeds UPS backup time.

The NMC supports control of individual load segments (groups of outlets). This allows the user to preferentially shut down non-essential equipment to reserve battery power for more important systems. Preferential load segment power-up also allows priority systems (e.g., DNS server) to be started first when power returns.

¹ Using customer provided SMS or pager gateway.

DETAILED HISTORICAL DATA

Built-in data and event logs track and record specific power-related occurrences over time, at user-defined increments as fine as one-minute intervals.

HISTORICAL GRAPHS FOR RAPID TREND ANALYSIS

Text-based event logs contain easy-to-understand event descriptions with corresponding date and time stamps.

IN-SERVICE INSTALLATION AND UPGRADES

Cards can be installed without interrupting critical loads, and can be easily updated over network connections. A simple network-based utility is used to discover and update multiple cards on the network using Dell UPS Management software to implement discovery.

Configure NMC Via:
Intuitive web browser interface, with Dell look, feel & functionality
Dell UPS Management Software
Local serial link
Bootstrap Protocol/Dynamic Host Configuration Protocol (BOOTP/DHCP, network parameters)
Standard user or superuser credentials for Linux® operating systems
TCP/IP communication protocol installed to support network management
Features :
Seamless integration with Dell OpenManage™
Simultaneous monitoring from up to five connected browsers (three in SSL)
Configuration of automatic e-mail messages in response to UPS alarms and to transmit periodic reports
Control of automated and scheduled on/off UPS switching with a Web browser
Adjustment and control of load segments through the Web interface, including sequential starting of the installation and optimization of backup time by shutting down non-priority systems
Protection by secure SSL connection and administrator password
Monitoring, recording, and broadcasting of unique power metrics such as peak and continuous power consumption and remaining headroom
Card firmware and UPS firmware updates through the network
Connection to the card with straight CAT5 RJ-45 network cables
Easy installation—the Dell NMC can be installed while the UPS is online for high system availability

