

# Network Management Card 4 (NMC 4)

## Galaxy VS Firmware 6.130.0 / Galaxy VL Firmware 20.3.0/ Galaxy VXL Firmware 15.29.0 Feature List

| Features                                                                 | UPS Family |           |            |
|--------------------------------------------------------------------------|------------|-----------|------------|
|                                                                          | Galaxy VS  | Galaxy VL | Galaxy VXL |
| Browser and mobile access                                                | ✓          | ✓         | ✓          |
| EcoStruxure™ IT integration                                              | ✓          | ✓         | ✓          |
| PowerChute™ Network Shutdown integration                                 | ✓          | ✓         | ✓          |
| Event logging                                                            | ✓          | ✓         | ✓          |
| Fault and power event notification                                       | ✓          | ✓         | ✓          |
| Configure events                                                         | ✓          | ✓         | ✓          |
| Modbus serial/TCP                                                        | ✓          | ✓         | ✓          |
| Syslog                                                                   | ✓          | ✓         | ✓          |
| Enterprise management system compatible                                  | ✓          | ✓         | ✓          |
| SNMPv1                                                                   | ✓          | ✓         | ✓          |
| SNMPv3                                                                   | ✓          | ✓         | ✓          |
| FTP server access support                                                | ✓          | ✓         | ✓          |
| TLS 1.2 support                                                          | ✓          | ✓         | ✓          |
| TLS 1.3 support                                                          | ✓          | ✓         | ✓          |
| IPv4                                                                     | ✓          | ✓         | ✓          |
| IPv6 Ready                                                               | ✓          | ✓         | ✓          |
| Domain Name System (DNS) configuration                                   | ✓          | ✓         | ✓          |
| SSH/SFTP up to 4098-bit public/private key encryption                    | ✓          | ✓         | ✓          |
| Firewall configuration                                                   | ✓          | ✓         | ✓          |
| Password security                                                        | ✓          | ✓         | ✓          |
| 4-tier user access (Administrator, Device-Only, Network-Only, Read-Only) | ✓          | ✓         | ✓          |
| Multi-user support                                                       | ✓          | ✓         | ✓          |
| SMTP authentication (e-mail)                                             | ✓          | ✓         | ✓          |
| HTTPS                                                                    | ✓          | ✓         | ✓          |
| Network Time Protocol (NTP)                                              | ✓          | ✓         | ✓          |
| Secure Boot                                                              | ✓          | ✓         | ✓          |
| Command Line Interface (CLI)                                             | ✓          | ✓         | ✓          |
| Parallel UPS support                                                     | ✓          | ✓         | ✓          |
| Modular battery support                                                  | ✓          | ✓         | ✓          |

| Features                                                                                                                           | UPS Family |           |            |
|------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------------|
|                                                                                                                                    | Galaxy VS  | Galaxy VL | Galaxy VXL |
| Localized language support (Simplified Chinese, French, Russian, Spanish, German, Brazilian Portuguese, Italian, Japanese, Korean) | ✓          | ✓         | ✓          |
| NMC firmware update                                                                                                                | ✓          | ✓         | ✓          |
| Support added for AP9644 Network Management Card                                                                                   | ✓          | ✓         | ✓          |
| Temperature notifications and actions                                                                                              | ✓          | ✓         | ✓          |
| Optional humidity notifications and actions                                                                                        | ✓          | ✓         | ✓          |
| Local access to Web UI and CLI interfaces via micro-USB cable                                                                      | ✓          | ✓         | ✓          |
| RADIUS                                                                                                                             | ✓          | ✓         | ✓          |
| Debug dump for Technical Support                                                                                                   | ✓          | ✓         | ✓          |
| User configuration file                                                                                                            | ✓          | ✓         | ✓          |
| Support for 802.1x (EAPoL) Protocol                                                                                                | ✓          | ✓         | ✓          |
| Support for Secure Syslog                                                                                                          | ✓          | ✓         | ✓          |
| SCP file transfer                                                                                                                  | ✓          | ✓         | ✓          |
| Reset NMC settings from Web UI and CLI                                                                                             | ✓          | ✓         | ✓          |
| Additional Logging                                                                                                                 | ✓          | ✓         | ✓          |
| Support for Dell VxRail for PowerChute Network Shutdown v4.5, or higher                                                            | ✓          | ✓         | ✓          |
| Remote Battery self-test via Web UI and SNMP                                                                                       | ✓          |           |            |

## Notes

- **Browser Support:** The Network Management Card 4 Web UI is compatible with the latest releases of Microsoft® Edge, Mozilla® Firefox®, and Google® Chrome®.
- **EcoStruxure IT:** Integrates with StruxureWare Data Center Expert v7.7.0 and higher/ EcoStruxure IT Expert (Gateway v1.5.3 and higher) / Mobile Insights.
- **PowerChute Network Shutdown:** Integrates with version 4.3.0 and higher. **NOTES:**
  - Parallel UPS configurations in PowerChute are supported in v4.4.0 and higher.
  - For information on how to add more than 50 PowerChute clients to one UPS, refer to [Application Note #101](#).
- **Modbus Serial:** 2-wire and 4-wire configuration.
- **Enterprise management system compatible:** Make device information available to your preferred enterprise management system by forwarding SNMP traps (events) across SNMPv1 and SNMPv3.
- **Command Line Interface:** To access the CLI, use a remote connection (SSH over ports 22, 5000 - 32768) with a computer on the same network as the NMC, or using the micro-USB cable with internal IP (SSH over port 22).

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