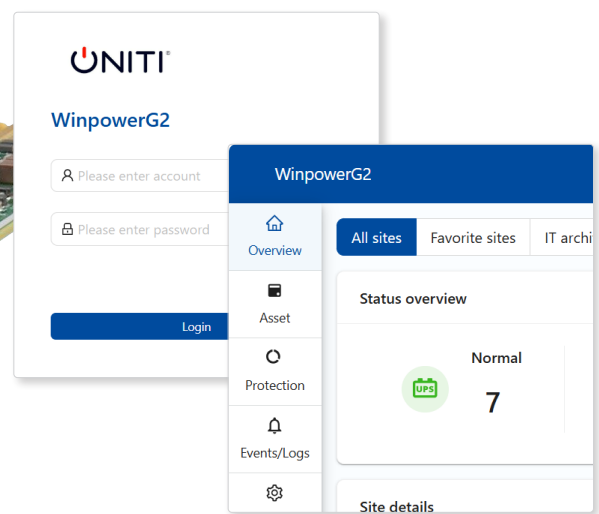


Power Meets Intelligence:

UPNETG2 with Winpower G2 and SPS G2



Future-Proofing UPS Connectivity Across the Enterprise

Executive Summary

As power infrastructure becomes more intelligent, interconnected and security-critical, Uniti Power is redefining how professionals monitor, manage and protect their uninterruptible power supply (UPS) systems.

At the centre of this evolution is the UPNETG2 Gigabit Network Management Card, a secure, high-speed platform designed to deliver full network visibility and control across Uniti Power UPS systems. When paired with Winpower G2 and SPS G2 software, it provides a fully integrated solution that not only manages power but secures it, automates critical responses and scales effortlessly across physical and virtual environments.

This is not just a connectivity upgrade; it is a strategic transformation in how businesses interact with their power infrastructure.

1. UPNETG2: Secure, Scalable and Intelligent by Design

The UPNETG2 is Uniti Power's latest generation SNMP-based network management card, built on a robust Linux platform and equipped with gigabit-speed performance. Engineered to support all Uniti Power UPS models with a network card slot, the UPNETG2 provides secure, real-time monitoring and control through multiple access channels.

Key Capabilities

- **Web-Based Management:** Embedded HTML5 GUI accessible via HTTPS, with no software installation required.
- **REST API Integration:** Enables secure connection to third-party platforms and orchestration systems.
- **Protocol Support:** SNMP v1/v3, Modbus TCP, MQTT, and HTTPS for seamless interoperability across networks.
- **Secure Shell Access (SSH):** Command-line diagnostics and remote configuration.
- **Environmental Monitoring Ready:** Integrates with SPYEMP sensors to track temperature and humidity levels.
- **Event Logging and Scheduling:** Detailed event history, alarm management and customisable control logic.
- **Multi-Card Support:** Designed for both short and long card slots, simplifying deployment.

Cybersecurity at the Core

UPNETG2 is designed with a security-first architecture:

- Secure boot process to prevent unauthorised firmware execution
- Encrypted firmware images and role-based access control
- Configurable firewall with port-level management
- Support for TLS/SSL, SNMPv3 and LDAP authentication protocols
- Isolated secure enclave for sensitive credentials

This ensures the solution meets the most stringent compliance and IT security policies across enterprise and industrial environments.

2. Winpower G2: Centralised Control with Modern Infrastructure Intelligence

Winpower G2 is the central management software for Uniti Power UPS systems. It provides a holistic view of power environments through a browser-based dashboard, offering advanced features for IT administrators, managed service providers and facility managers.

Platform Features

- **UPS and PDU Discovery:** Auto-detection across LAN/WAN environments.
- **Real-Time Data and Alerts:** Live power status, battery health, alarm events and environmental conditions.
- **Centralised Shutdown Management:** Initiates remote shutdowns for connected systems, including VMware, ESXi, IPMI, SSH and NetApp.
- **Multi-Tenant and Multi-Site Management:** Supports hierarchy views, grouping, and delegation via role-based permissions.
- **Secure Communications:** HTTPS, MQTT and REST API access with LDAP-based authentication.
- **Data Logging and Visualisation:** Historical graphs, event traceability and custom reporting for audits and diagnostics.
- **Web-Based Access:** Accessible on all major browsers across Windows, Linux and macOS.

This unified interface ensures operational continuity and compliance while reducing manual overhead and response times.

3. SPS G2: Localised Shutdown Automation for Edge Resilience

SPS G2 (System Protect Software) is installed directly on local endpoints or servers to enable intelligent shutdown in the event of power anomalies. It functions as the local agent within the UPS ecosystem, ensuring that mission-critical systems power down gracefully to prevent data corruption or hardware damage.

Features and Functions

- **Scripted Shutdown Sequences:** Custom scripts can be executed before shutdown, supporting complex workflows (e.g., database closure, service termination).
- **Cross-Platform:** Compatible with Windows, Linux and macOS systems.
- **Event-Based Protection:** Monitors power source alarms and takes action according to predefined parameters.
- **Shutdown Delay and Duration:** Allows for customisable delay before and during shutdown, enabling restoration checks and smooth system closure.
- **Dashboard and Logs:** Displays active protection status, power source condition and historical logs for traceability.
- **Secure Communications:** Uses encrypted channels for communication with the network card and Winpower G2.

SPS G2 is especially valuable in virtualised or distributed environments where local intelligence is essential to complement centralised controls.

4. Combined Architecture: Unified Visibility and Resilience

Deploying the UPNETG2 card alongside Winpower G2 and SPS G2 enables a fully integrated, layered architecture for UPS management.

Feature	UPNETG2	Winpower G2	SPS G2
SNMP/Modbus/MQTT Protocol Support	✓	✓	-
Embedded HTML5 Web Interface	✓	-	✓
VMware & IPMI Integration	✓	✓	✓
Scripted Shutdown Support	-	✓	✓
Multi-OS Compatibility	-	✓	✓
Role-Based Access Control	✓	✓	✓
Centralised Dashboard	-	✓	-
Local Endpoint Protection	-	-	✓
REST API for 3rd Party Integration	✓	✓	-

This layered approach brings:

- Operational Efficiency through automation and centralisation
- Security and Compliance via advanced authentication and encryption
- Flexibility to support hybrid, virtualised and edge deployments

5. Use Cases Across the Enterprise Landscape

The Uniti Power connectivity suite is ideal for:

- Data Centres: Real-time monitoring and centralised control across redundant power paths.
- IT & Server Rooms: Scheduled testing, outlet control and environmental monitoring.
- Industrial Facilities: Secure integration into SCADA, Modbus and field networks.
- Remote Offices: Browser-based visibility with localised shutdown automation.
- Edge Computing Sites: Independent agent protection with central policy management.

6. Conclusion: Intelligent Power, Unlocked

With the UPNETG2 card, Winpower G2 platform and SPS G2 endpoint protection working in concert, Uniti Power customers gain full-spectrum control of their power environment.

This is the future of connectivity: secure, responsive, and built for scale.



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