FLEXPOWER NLC, NXB

NetLink Connect Network Connectivity Modules

OSDP Enabled | Remote Power Monitoring | Reporting and Control | U.S. Patents 8,566,651 and 9,098,390

Overview

The **NetLink Connect NLC Network Connectivity Module** is a RS485 enabled device that communicates and controls power status over a local or wide area network. The NLC is the primary module in the LifeSafetyPower NetLink® technology suite enabling Managed Power Solutions for FlexPower systems. Each NLC can manage 31 NXB modules through a secure OSDP connection and 32 managed modules through an isolated RS485 connection.

The **NetLink Connect NXB Network Connectivity Expansion Module** allows multiple enclosures to be monitored by a single NLC module through a secure OSDP connection. The NXB must be used with an NLC and will not operate on its own. OSDP connections only support communication between NLC and NXB. Each NXB can monitor up to 32 managed modules through an isolated RS485 connection.

Typical data gathered and reported for connected managed modules includes operational fault status, power supply output voltage, battery charging voltage, battery charging current, and fire alarm input status.

Specifications

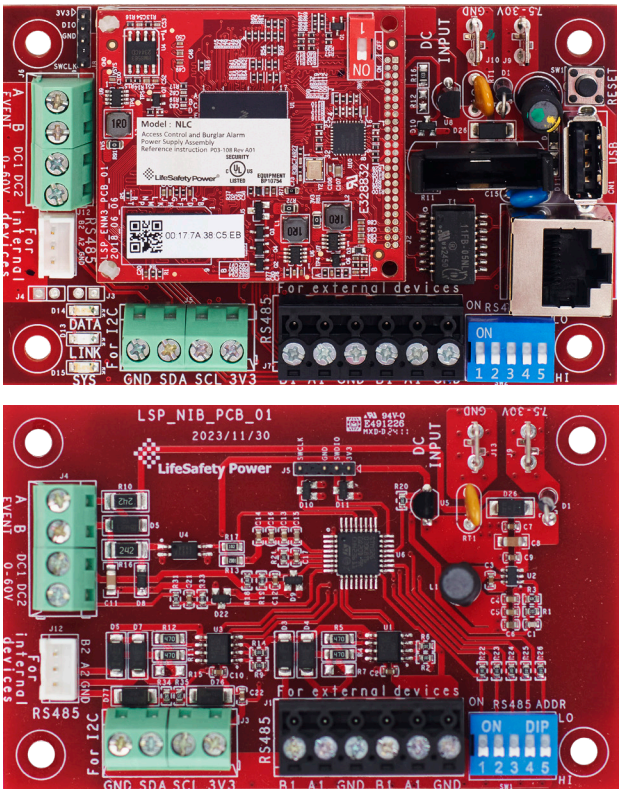
Parameter	Rating
Input Operating Voltage	8–30VDC
Input Operating Current	60 mA nominal
Network Data Rate	10/100 Mbps
Voltage Measurement Range	0–20A ±0.1A +5% of reading
Event Input	8–30VDC
Network Drop	NLC 1 required for each NLC NXB 31 NXBs connect through 1 NLC via OSDP
Device Count	Device Count per network drop not to exceed 64 NLC 32 managed modules via RS485 and 31 NXBs via OSDP NXB 32 managed modules via RS485
OSDP Range	2,000 feet with an EOL resistor 120-200 Ohm

Features

Remote Diagnostics and Service Features

- Monitor health and status of host power supply, battery set, and individual outputs (requires M8 module)
- Auto-schedule, test, and report battery standby time
- Remote supervision of battery's state of charge
- Monitoring internal cabinet temperature
- Monitoring external room temperature with over temp alert
- Remote power cycling control of external equipment
- Time/Date stamp log reports last 1000 events

FLEXPOWER UNIFIED POWER SOLUTIONS



Monitoring and Reporting

- System Integrity
- Battery Health
- Output Condition
- 1000 Event Buffer

Email or SNMP Notification

- AC and system fault conditions
- Aging or drained battery, not meeting standby specification
- Fire Alarm Interface (FAI) activation
- External room temperature outside preset limit
- External Event activation
- Output condition (requires M8 module)
  – Over voltage or over current | voltage loss | output power cycled

SNMP Set and Trap Notification

- Version 1, 2, or 3

Hardened Cybersecurity

- Encrypted password, user and certificate logging

Lifetime Warranty

Ordering

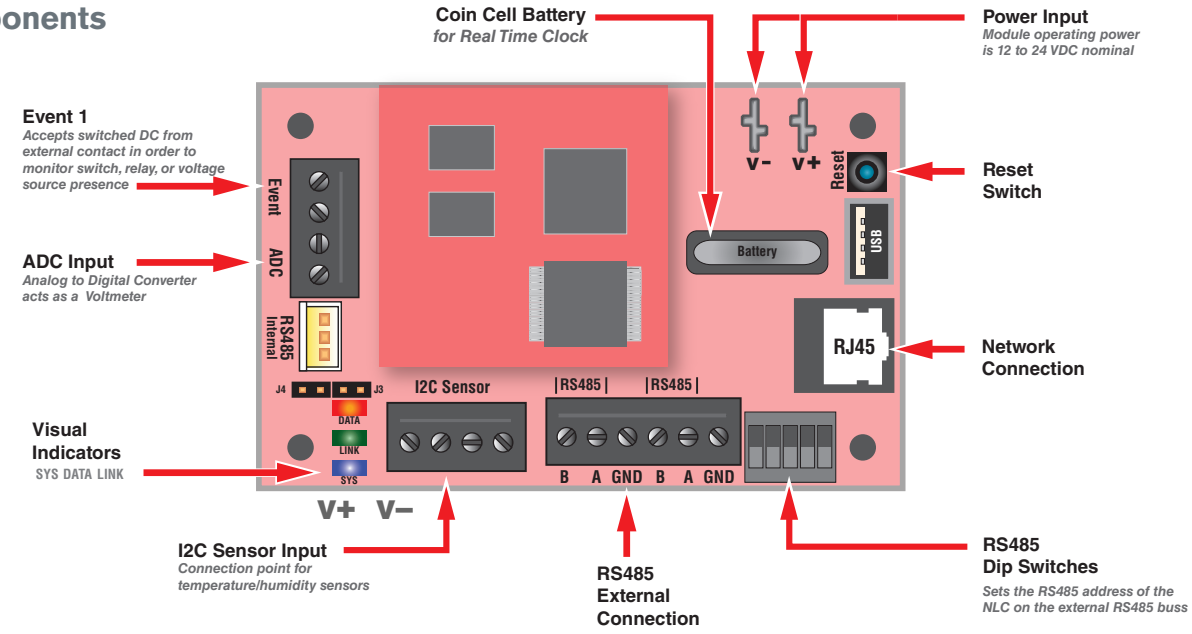
Model	Description	Dimensions	Weight
NLC	OSDP Network Module	4"H x 2.5"W x 1.5"D	.25 lb
NXB*	OSDP Network Expansion Module	4"H x 2.5"W x 1.5"D	.25 lb

**NLC module is required when using an NXB module.*
Provided with cables and mounting hardware.

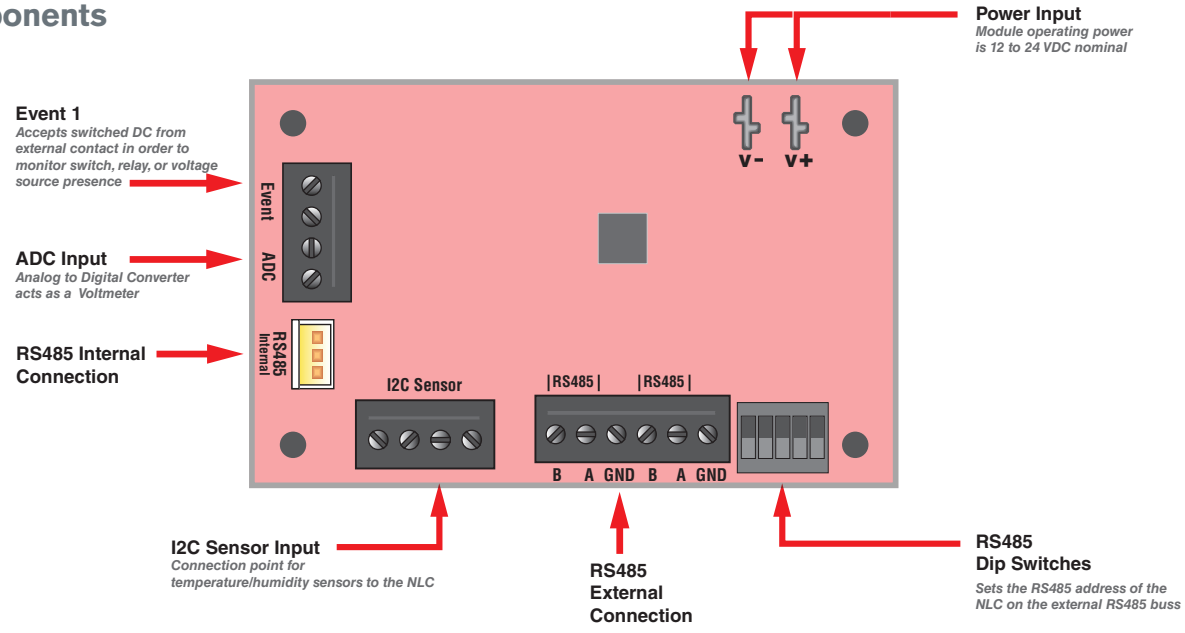
Agency Listings

Domestic and International Certifications
UL294, UL2610, ULCS318, CAN/ULC 60839-11-1

NLC Components



NXB Components



Managed Power Features

These Managed Power Features are enabled in the NetLink dashboard when using any NetLink module with other managed products.

Monitoring Parameters

- Power Supply Output Voltage
- AC Input Measurement and Fault Status
- System Fault Status
- Fire Alarm Input Status
- Battery Voltage and Charge Current
- Battery Age
- External Room Temperature
- Total Number of System Faults
- Total Number of AC Faults
- DC Load Current (system or battery)
- DC Output Voltage (system and battery)
- Tamper Switch (or other contact monitoring)
- AC or System Fault
- FAI Activation
- Low Battery Voltage
- Low Measured Battery Standby Time
- General System Status Report
- Scheduled System Service Due
- Battery Replacement Due
- External Temperature Sensor
- Tamper Switch Activation

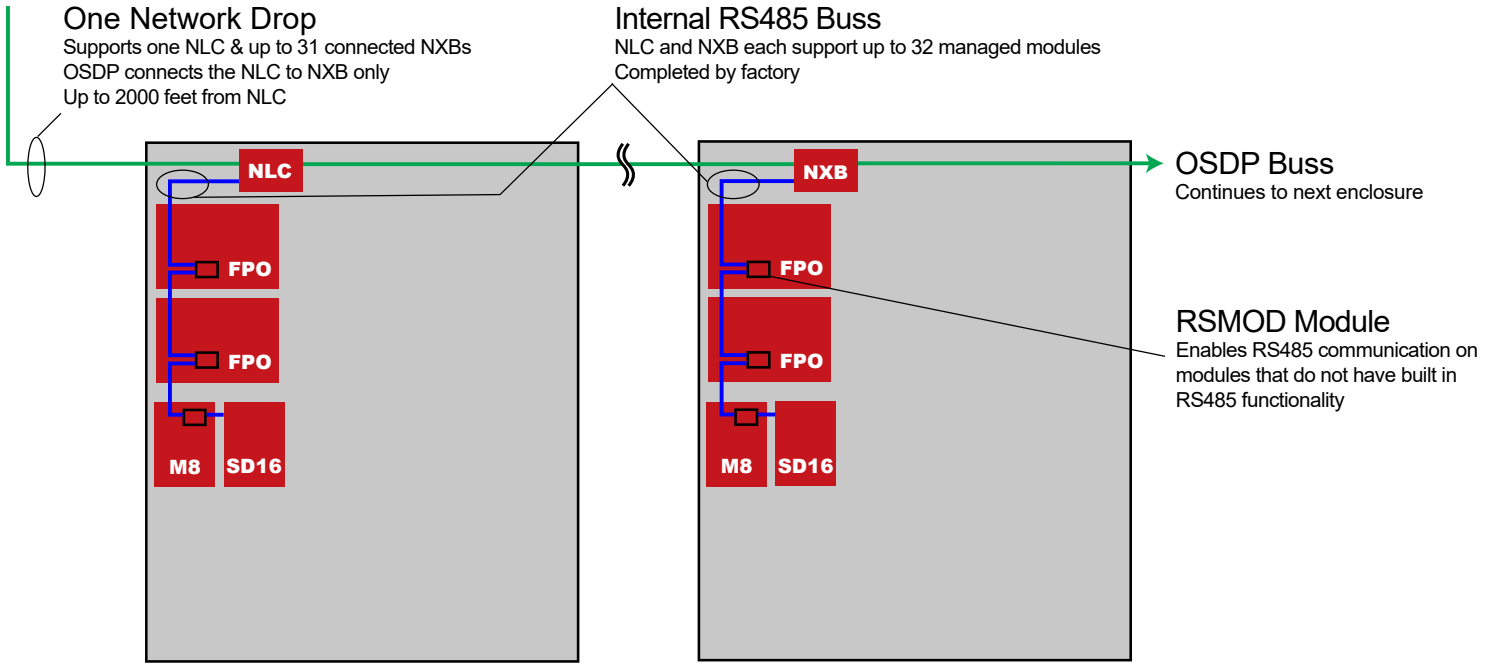
Test Functions

- Battery Run Time Capacity
- Battery State of Charge

Programmable Functions

- AC Fault Delay
- System Fault Delay
- System Install Date
- Reset Fault Counters
- Optimal Battery Charge Current
- Reset Battery Age Counter
- Battery Replacement Period
- Temperature, Current, Voltage Trigger Parameters

Event-triggered Email Alerts and Reports



Distributed Power Monitoring using the NLC & NXB

NetLink Browser Home Screen

Network Dashboard

- Internal/External Temperature Sensors
- Voltage Sensor Reading
- Event Activation Condition
- Service Due Report
- System Fault Log Report

NetLink Connected Devices

- NLC: Up to 32 managed modules via RS485 and 31 NXBs via OSDP
- NXB: Up to 32 managed modules via RS485
- Visual status of device condition

Report Screen

- Set up screen
- What to report, when to report

Configure Screen

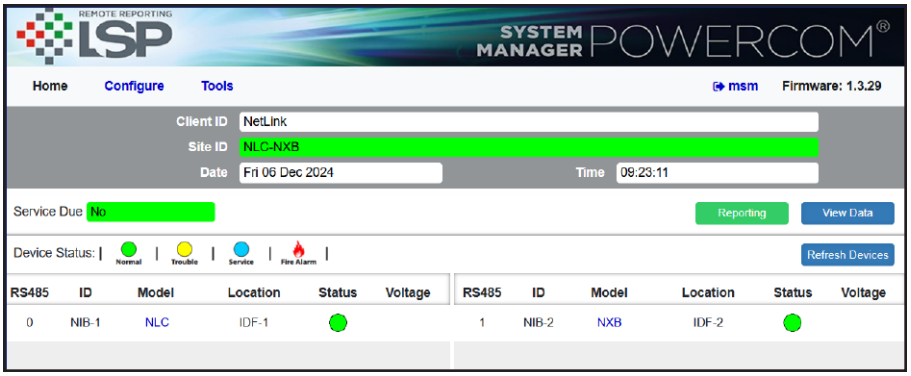
- Network, email, SNMP settings
- Battery life/capacity setting
- User login and activity logs

Power Supply Screen

- Set FPO battery charge current
- Set fault report delays
- Reset timer for new battery install
- Reset fault counters

Tools Screen

- Upgrade software
- System reboot



Typical NLC Home Page

NLC Screen for Connected Managed Modules

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