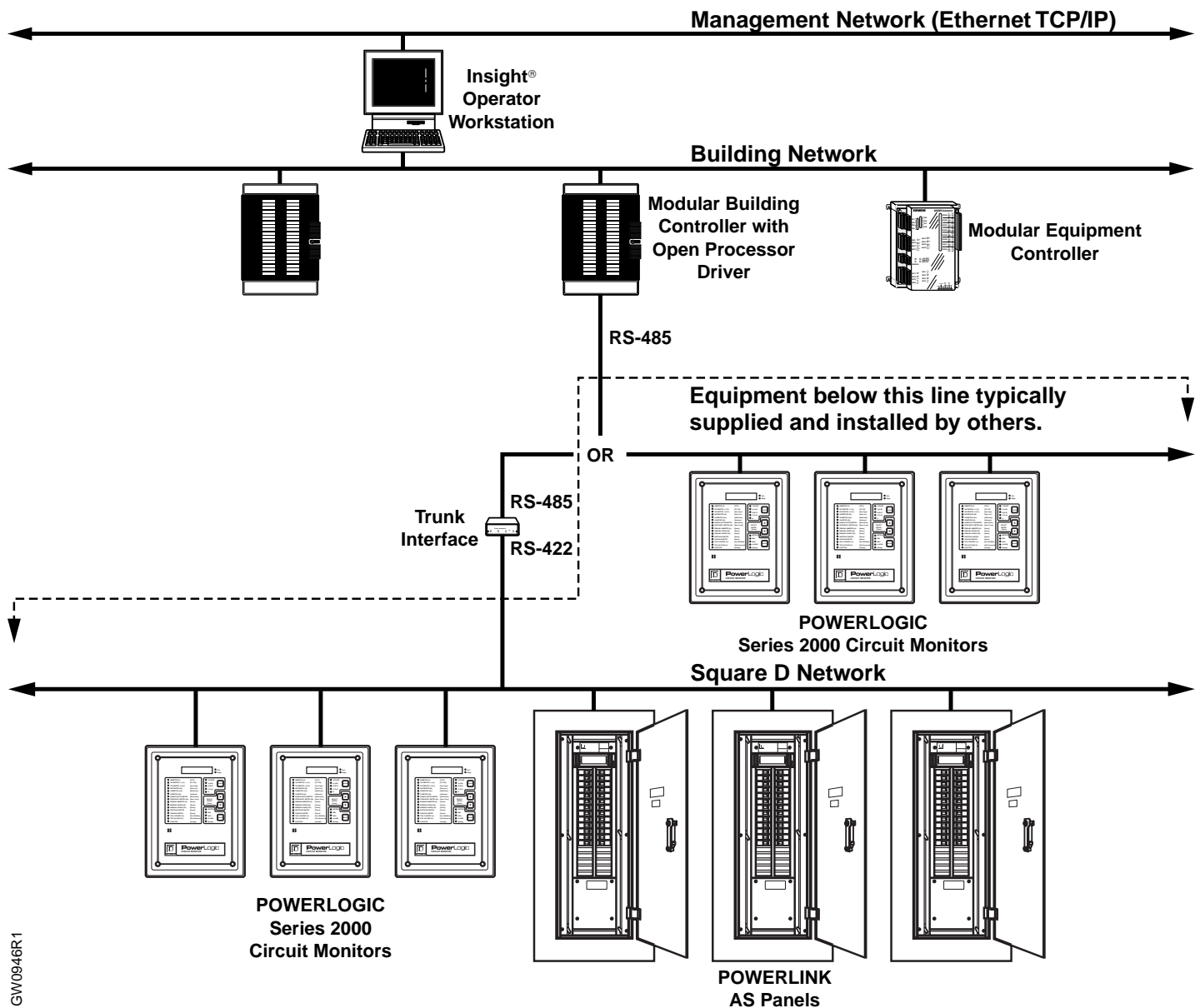


## Systems Integration

# APOGEE® Open Processor with Square D SY/MAX Driver: Direct Connect



GW0946R1

Figure 1. System Architecture.

## Notes on System Architecture

The APOGEE Open Processor with Square D SY/MAX Driver provides communication between the APOGEE Automation System and the Square D® POWERLINK® AS and POWERLOGIC® system interface.

## Functionality

The Open Processor with Square D SY/MAX Driver is a microprocessor-based, multitasking platform designed for multi-system communication and control. The Open Processor communicates with the APOGEE® Insight® software package, other APOGEE field panels and controllers, and the Square D system.

Through APOGEE Insight, the Square D points can be monitored and commanded. The Square D points integrated into the APOGEE Automation System can be accessed by system applications such as Powers Process Control Language, Equipment Scheduling, Trending, and Enhanced Alarming. The Open Processor also supports standard I/O point modules.

The Square D SY/MAX driver will not affect, in any way, the operating sequence or safeties as factory programmed into the Square D system.

## Square D Direct Connect

A Square D Direct Connect configuration is appropriate when it is permissible to directly connect into a Square D device, either a power monitor or lighting control panel, and the SPE4 port expander module is not used. With a direct connection into a Square D lighting device, an RS-485 (2-wire) to RS-422 (4-wire) converter (Trunk/RS-422 Interface) is required. With a direct connection into a power monitor device, the connection can be either RS-485 (2-wire) or RS-422 (4-wire).

The RS-485 wiring is used if only power monitors are integrated. For a combination of power monitors and lighting panels, RS-422 wiring and a converter is used.

## Keys to Success

Ensure that all Square D equipment to be integrated is supported by the APOGEE Open Processor with Square D SY/MAX Driver.

## Benefits

Systems integration brings the powerful facility control capabilities of the APOGEE Automation System together with the Square D system. Integrating the Square D points allows both systems to operate as a single system providing marked advantages in the following:

- Reduced operating and training costs.
- Increased employee productivity.
- Increased diagnostic capabilities to extend equipment life.
- Improved systems information and control.
- Maximized energy savings.

## Products Supported

Square D models supported by the Square D SY/MAX driver include:

- POWERLINK AS42 Control Modules with POWERLINK AS Circuit Breakers
- POWERLOGIC Series 2000 Circuit Monitors and Series 600 Power Meters

If there are any questions regarding the Square D system, contact your local Square D representative.

## Ordering Information

Description	Product Number
APOGEE Open Processor with Square D SY/MAX Driver	565-389
Pre-APOGEE Open Processor with Square D SY/MAX Driver	565-342

For more information, see [www.siemens.com](http://www.siemens.com).

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