The next generation platform for a Smarter Grid

The Cooper Power™ series SMP 4/DP Distribution Processor is robust, but extremely flexible—providing utilities with the advanced features required to build intelligent solutions that meet NIST Smart Grid road map and security guidelines.

The SMP 4/DP bridges the gap between substations and automation systems:

- Extracts and concentrates data from any device, regardless of protocol
- Sends data to SCADA, control centers, and any other centralized management applications
- Automates data processing and device control
- Provides secure remote access to any device
- Manage alarms and visualize substation single-line diagrams from a web interface
- Future-proof your Smart Grid — facilitates upgrades for security, protocol, or other improvements

**Flexibility**

- Ideal for retrofit and upgrade projects. The SMP 4/DP is designed for Greenfield or Brownfield. It integrates existing legacy RTUs, IEDs, PLCs, and multiple control centers
- Suitable for both pole-top or pad-mounted distribution automation applications
- Universal port (RS-232/485) enables connection to any serial device
- Data filtering allows for efficient bandwidth management over legacy low speed networks
- Two Ethernet ports support flexible network architectures for security and IEC 61850
- Fully compatible with Yukon™ IED Manager Suite for secure remote event, passsthrough, and configuration management
- Use with SMP I/O to achieve comprehensive real-time control solutions

**Reliability**

- Supports IRIG-B input for accurate time-stamping of data
- Includes user-friendly configuration tools for simplified commissioning
- Creates a homogenous system with a single point of access for all substation data
- Enhances the performance of your infrastructure with a new 600 MHz processor

**Security**

- Comprehensive security features for simplified NERC CIP compliance
- Shares all the security features of the SMP Gateway family, including user authentication, complex

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**Eaton's Cooper Power™ series Substation Modernization Platform (SMP™) 4/DP Distribution Processor**

Cooper Power™ series SMP 4/DP is a powerful and rugged platform, providing utilities with secure and reliable data acquisition and management. Its versatile and compact shape makes the SMP 4/DP an ideal tool for both inside and outside the substation fence automation and integration applications. Installed directly in protective relay enclosures or in the switchyard, this SMP Gateway provides essential communication and data concentration features. It has also been designed to operate over a broad temperature range, which is critical to utilities who serve extreme temperature environments.

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**Eaton**

Powering Business Worldwide

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**BORDER STATES**

Supply Chain Solutions™
• Meets all IEC and IEEE® requirements for substation-grade equipment

Robustness
- Advanced architecture saves rack space
- Conformal coating option available for extremely harsh environments
- Intelligence and scalability
- Extend the capabilities of legacy devices with the built-in Logic Processor and the optional Soft-PLC
- Extract non-operational data for planning, maintenance, engineering, and fault analysis
- Over 100 protocols available— including IEC 61850 and IEEE C37.118

Expertise
- Eaton has decades of experience in substation gateway design
- Thousands of installed systems worldwide

Security Features
- Built-in firewall
- Built-in malware protection
- Modern connection management
- Remote access management
- User account management: Strong passwords
- User accounts and user groups
- Detailed group permissions
- Security event logging and monitoring
- Account lockout
- Renewable access logs for auditing
- All system components digitally signed
- Continuous file monitoring for system integrity
- DNP3 Secure Authentication V2 and V5

Connectivity
- Up to 16 device connections
- Up to 4 control center connections
- Up to 16 device connections
- Up to 5,000 data points
- DNP3 Secure Authentication V2 and V5

Time Synchronization
- Input: Demodulated IRIG-B

Warranty
- 5-Year Limited Warranty

Environmental
- Operating (at CPU 100% usage):
  - DC: -40 °C to + 70 °C (-40 °F to + 158 °F)
  - AC: -40 °C to + 55 °C (-40 °F to + 131 °F)
- Storage:
  - DC: -40 °C to + 70 °C (-40°F to +158°F)
  - AC: -40 °C to + 85 °C (-40 °F to +185 °F)
- Humidity:
  - 5 to 95%, non-condensing
  - Low pressure (operation and storage altitude):
  - Up to 4572 m (15,000 ft)*
- *MIL-STD-810G Method 500.5 Procedure I and II

Electrical
- Power supply options:
  - 10-36 Vdc
  - 19-75 Vdc
  - 85-264 Vac / 105-370 Vdc
  - 5 W consumption
- Lifetime built-in battery

Dimensions
- 18.1 in. H x 4.49 in. W x 6.43 in. L
- 46 mm H x 114 mm W x 163.2 mm L
- 1.81 in. H × 4.49 in. W × 6.43 in. L
- T lbs / 454 g

Power supply options:
- 10-36 Vdc
- 19-75 Vdc
- 85-264 Vac / 105-370 Vdc
- 5 W consumption
- Lifetime built-in battery

For Eaton’s Cooper Power series product information, call 1-877-277-4636 or visit Eaton.com/cooperpowerseries