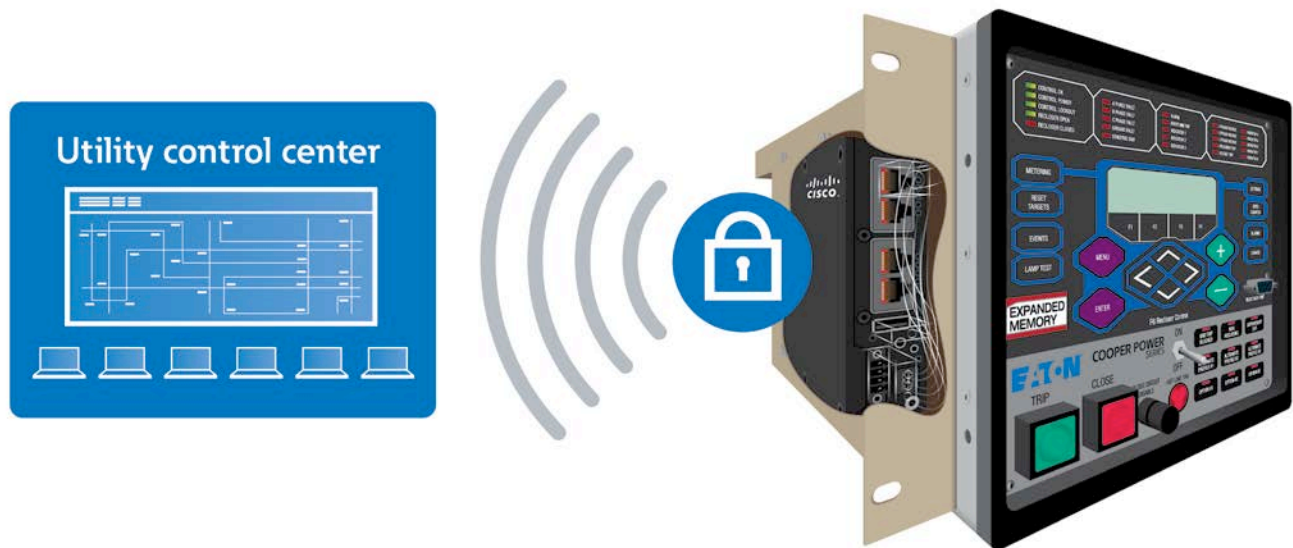


# Safeguard against cyber and physical threats with Eaton's integrated solution



Eaton's Cooper Power™ series Form 6 Secure Communications Module integrates a secure router inside either a new or existing Eaton Form 6 recloser control cabinet, enabling utilities to quickly, easily and cost-effectively prevent security breaches.

With cyber threats intensifying in both frequency and complexity, utility companies are under increasing pressure to eliminate vulnerabilities in their distribution systems. Eaton's Form 6 Secure Communications Module addresses that challenge, combining a Form 6 recloser control with a Cisco Industrial Integrated Services Router in a single fully tested and integrated solution. By facilitating encryption and authentication between recloser controls and the control center, the Eaton Form 6 Secure Communications Module solution enables utilities to efficiently secure grid communications.

By housing the router within the enclosure to protect against physical tampering, Eaton's Form 6 Secure Communications Module retrofits to existing Eaton Form 6 reclosers already installed in the field—at a cost that is typically 75% less than deploying new devices. Even more, with the optional Cisco IoT Field Network Director (FND), utility personnel gain simplified deployment and management through map-based visualization, monitoring and troubleshooting.

### Eaton's Form 6 Secure Communications Module enables utilities to:

- Secure communications by authenticating devices and encrypting data between reclosers and the control center
- Reduce capital expenditures with the ability to retrofit—instead of replace—existing Eaton Form 6 recloser controls
- Remotely manage, monitor and communicate with thousands of reclosers when coupled with the Cisco IoT FND
- Streamline acquisition and gain peace-of-mind by deploying an integrated, fully tested solution from a single vendor
- Reduce line crew training and troubleshooting with zero-touch provisioning and enhanced management/monitoring capabilities available through optional Cisco IoT FND

### Reduce security breaches with a single, comprehensive solution

By partnering to deliver an integrated retrofit solution, Eaton and Cisco have significantly reduced the cost and complexity of securing field networks against cyber attacks. The Form 6 Secure Communications Module arms utilities with the tools they need to take swift action in preventing hackers from penetrating substations and midline locations. The tamper-resistant mounting method protects against physical threats with the router mounted inside of the control cabinet.

### Eaton's Cooper Power series Form 6 recloser control

Provides for extensive system protection functionality, working with the recloser to:

- Detect and clear distribution line faults
- Automatically reclose the line to restore service following an outage
- Isolate the affected line sections if a fault persists

### Cisco IR809 Industrial Integrated Services Router

- Provides for seamless automatic commissioning of IR809 routers with zero touch provisioning; no additional training of line crews required
- Provides secure communications with the control center over Ethernet or 4G/LTE wireless network
- Authenticates devices to thwart man-in-the-middle attacks
- Further enhances security with access control lists, MAC filtering and other techniques

### Optional Cisco IoT FND

- Seamlessly and automatically commissions IR809 routers with zero touch provisioning; no additional training of line crews required
- Bolsters security by identifying any physical tampering of a router and retrieving the device's GPS information
- Simplifies management with map-based visualization, monitoring, troubleshooting and alarm notifications
- Guards against breaches by encrypting communications with IR809 routers using public key infrastructure (PKI)
- Alerts operators when unauthorized devices attempt to communicate with reclosers



Form 6 recloser control with Cisco IR809 industrial router

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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Printed in USA  
Publication No. PA280017EN / Z20340  
January 2018

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