

SEL-3061

Cellular Router



Confidently apply secure cellular wireless communications to critical infrastructure applications

- Cellular wireless connectivity provides access to remote equipment and installations.
- Comprehensive security methods ensure the confidentiality and integrity of data.
- A web interface simplifies configuration and provides device management and diagnostic information.
- Broad carrier support enables fast deployment across the United States.
- Design and testing to protective relay standards ensures electromagnetic compatibility and surge immunity.



Strengthen Your Communications Systems

Wireless Connectivity to Remote Devices Using Cellular Networks

Provide wireless connectivity for a variety of critical infrastructure applications. The SEL-3061 Cellular Router provides remote access for devices using public cellular networks. It supports 4G LTE, 3G, and 2G cellular technologies.

Secure Communication Over Public Cellular Networks

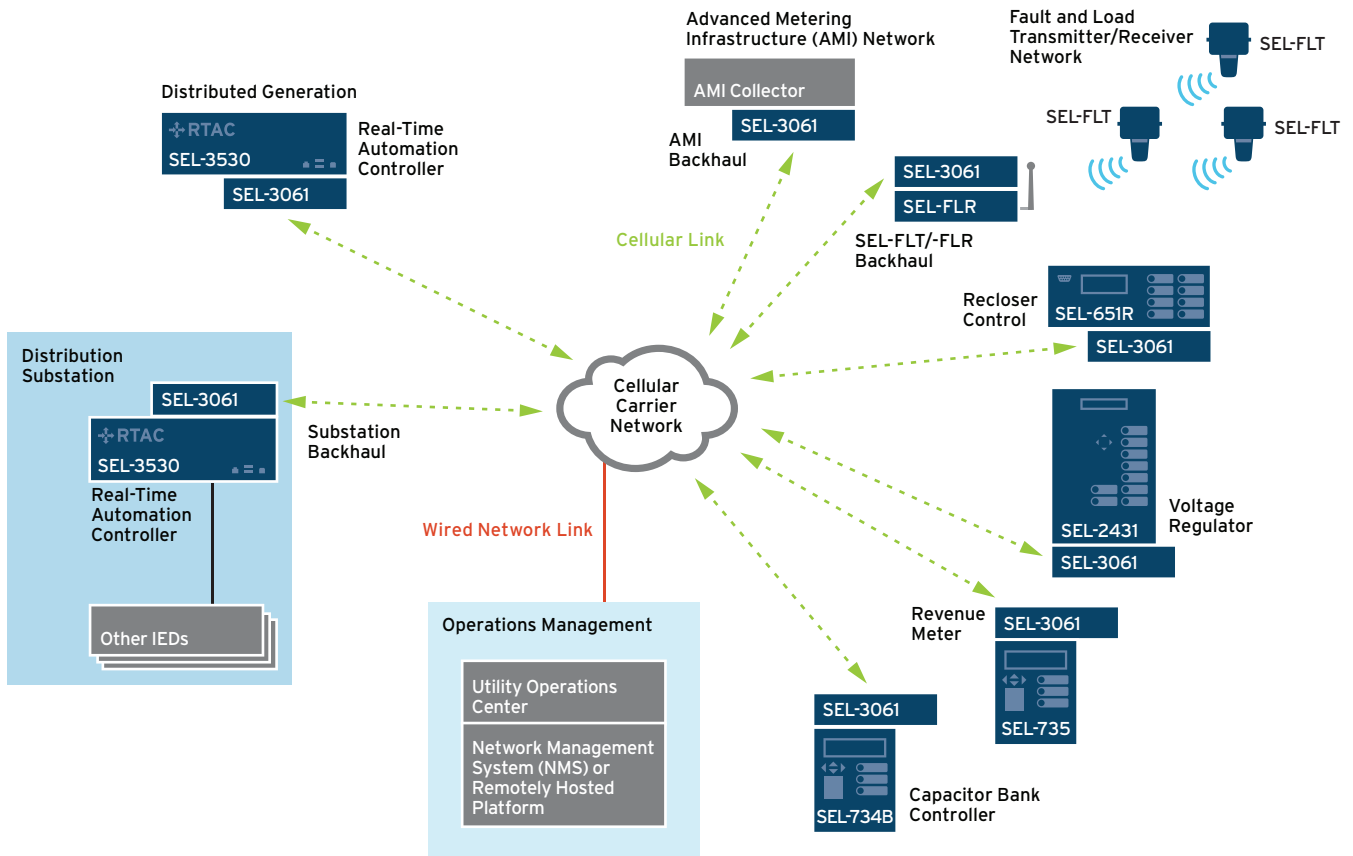
Ensure the confidentiality and integrity of your data using comprehensive security methods that include Internet Protocol Security (IPsec) data encryption, secure virtual private network (VPN) connections, a stateful packet inspection (SPI) firewall, MAC address filtering, and syslog. Remote Authentication Dial-In User Service (RADIUS) support allows you to manage user access using centralized authentication.

Network Monitoring

Simplify device management with an easy-to-use web interface that supports settings changes and over-the-air firmware upgrades. The SEL-3061 is equipped with the Simple Network Management Protocol (SNMP) for network monitoring of installed devices.

Application Overview

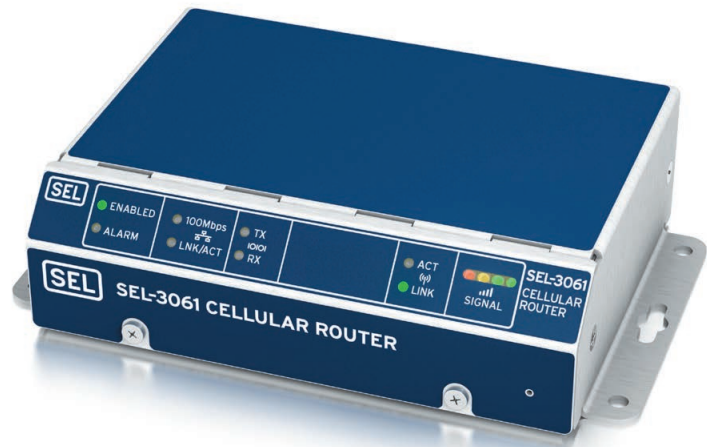
You can use the SEL-3061 for a variety of critical infrastructure applications. For electric utilities, the router provides connectivity to devices like recloser controls, motor-operated switches, capacitor banks, voltage regulators, substations, and much more. The combination of serial and Ethernet ports provides application flexibility, and using public networks with secure tunneling makes installation easy without sacrificing security.



Applications

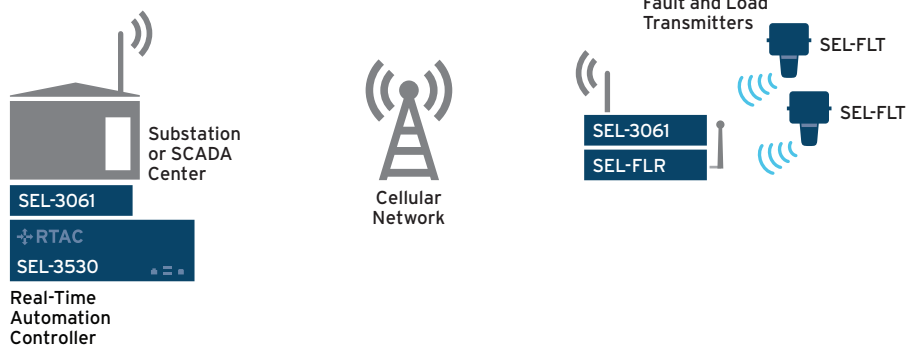
Communications to Substations

Use the SEL-3061 to communicate with substation equipment over secure cellular networks. The SEL-3061 is certified to operate across a broad range of cellular network operators. With LTE technology, which has a 100 Mbps downlink data rate and a 50 Mbps uplink rate, the SEL-3061 can be the primary communications link or it can be a redundant link to a fiber cable.



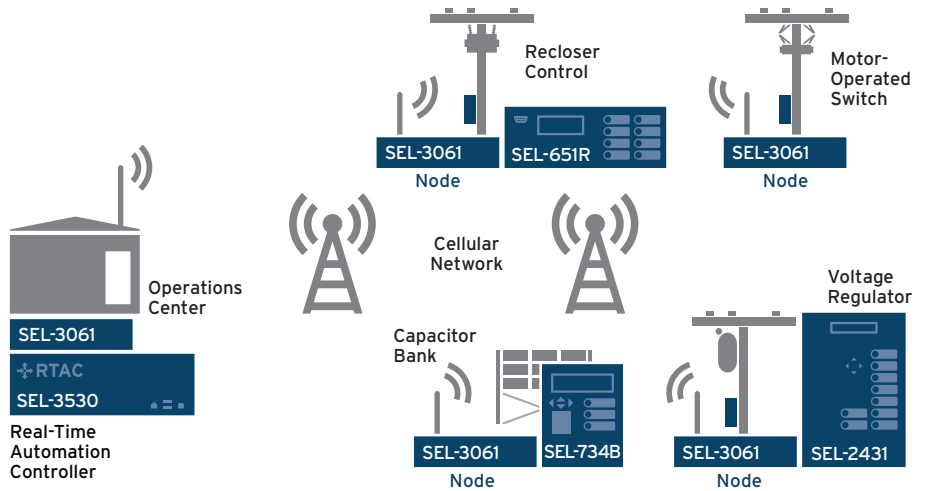
Backhaul for SEL Fault and Load Transmitter and Receiver Systems

Use the SEL-3061 to communicate with fault indicators and transmitters, including SEL-FLT Fault and Load Transmitters. The SEL-FLR Fault and Load Receiver collects fault and load data from SEL-FLT Transmitters, and then the SEL-3061 backhauls that information to a centralized location.



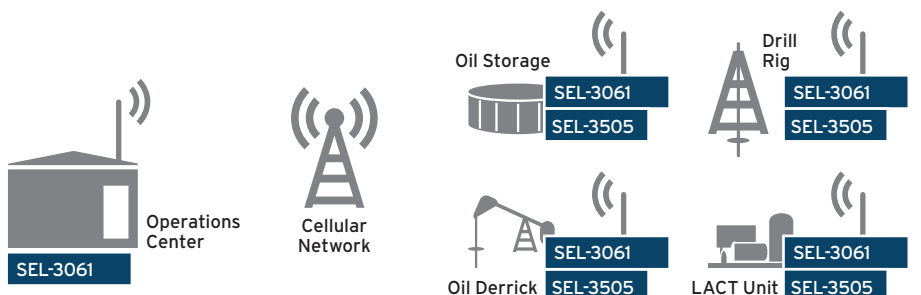
Distribution Network Automation

Provide communications for distribution automation with the SEL-3061. You can implement cost-effective radio links for collecting SCADA, metering, and synchrophasor data from field devices and for engineering access to devices.



Industrial Oil and Gas Systems

Provide real-time data collection for analysis and alarm detection. Radios create communications links to tanks, wellheads, Lease Automatic Custody Transfer (LACT) units, flow lines, pumps, valves, and test stations for improved safety and cost savings through efficiency gains.



SEL-3061 Specifications

General

Operating Temperature Range	-40° to +75°C (-40° to +167°F)
Relative Humidity Range	15–93%, noncondensing
Antenna Connector Type	SMA
Ports	1 Ethernet, 1 serial
Dimensions	5.96" × 4.08" × 1.73" (151 mm × 104 mm × 44 mm)
Communications	4G LTE with AT&T, Verizon, and T-Mobile networks; 3G/2G fallback with AT&T and T-Mobile
Power	12–30 Vdc, <5 W
Security	IPsec data encryption Secure VPN connections (5 concurrent VPN tunnels) SPI firewall User-set Destination Network Address Translation (DNAT), Source Network Address Translation (SNAT), and filter rules for accepting, rejecting, dropping, and logging packets Secure Sockets Layer (SSL) on serial port MAC address filtering Syslog
Management	SNMP-based network monitoring HTTPS web interface Over-the-air settings changes and firmware upgrades Centralized user management using RADIUS
Warranty	10 years

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