

GE Energy's I-210+ meter with integrated Silver Spring Networks (SSN) Network Interface Card (NIC) combines the accuracy and flexibility of our latest single-phase metering platform with the power and flexibility of SSN's two-way Smart Energy Network. This GE/SSN I-210+ meter brings significant value to the marketplace for today and into the future.

Add real-time, two-way communications between the utility and customers

Silver Spring Networks' NIC is an optional communication module that easily integrates with the GE I-210+ single-phase meter providing wireless networking and AMI capabilities. The integrated meter and module then become part of a standards-based, two-way information and control network—the Smart Energy Network. This solution provides utilities with the ability to efficiently deliver reliable service and improved customer satisfaction while at the same time serving as part of the Smart Energy Network, capable of providing advanced services—today and tomorrow.

Efficiency, reliability, and accuracy

The I-210+ single-phase meter is an electronic watt-hour meter that measures energy consumption in single-phase and network services, delivering outstanding operational efficiency and reliable measurement. With its innovative, simplified sensor design and mechanical construction, it provides high quality, solid-state measurement performance, accuracy, and reliability—and dramatically reduces lifetime meter ownership costs. It meets or exceeds GE's operation standards, at temperatures from -40°C through $+85^{\circ}\text{C}$. And it's available in all meter forms for residential or commercial single-phase and network services. The NIC reads meter registers directly, which allows for more efficient and robust data collection compared to pulse-based reads.

More about the I-210+

The I-210+, GE Energy's latest single phase basic energy meter, is designed to offer utilities high quality, solid-state measurement performance, affordability, accuracy and reliability. The I-210+ measures energy, and with the addition of a soft switch, is compatible with a suite of third-party AMI communication solutions, including SSN's Smart Energy Network. The I-210+ comes with the option of an integrated, factory-installed remote disconnect switch to help utilities more efficiently address issues such as non-payments and move-in, move-outs. The meter is also offered in network forms (I-210+n), allowing utilities to more cost-effectively meter network services.

- Low starting watts, which capture energy consumption at levels typically not registered by electromechanical meters
- Low burden, which minimizes utility system losses
- Patented tamper algorithm to detect tamper-by-meter inversion (turning the meter upside down)
- Large, easy to read LCD display
- Operation over a broad temperature range (-40°C through $+85^{\circ}\text{C}$).
- Voltage: -20% to $+15\%$ service voltage
- Typical starting watts: ≤ 5.0 Watts (Form 2S 240V CL200)
- Typical watts loss: 0.7 Watts
- Typical accuracy: within $\pm 0.2\%$
- Performance meets or exceeds ANSI C12.1, C12.10, C12.20, C37.90.1



About Silver Spring Networks and the NIC

Silver Spring Networks leverages the power of open, standards-based Internet Protocol (IP) technology to create a two-way, Smart Energy Network that connects utilities with their customers. This advanced utility network provides a scalable and reliable infrastructure from the substation to the customer premise, and can dramatically improve efficiency, lowering costs and ensuring the reliable delivery of services. This innovative network gives utilities greater flexibility to adapt to new technologies, products, and services—making a substantial difference to their bottom line.

The NIC features

- Full, two-way 902-928 MHz FHSS communications
- Standards-based security and encryption
- One-watt transmitter
- Dynamic network discovery and self-healing
- Supports scheduled and on-demand meter reads
- Alarm detection and clearing
- Time synchronization and management
- Supports a wide range of meters and forms
- Continuous neighbor node monitoring and route calculation
- “Over-the-air” firmware upgrades and remote meter programming
- “Under glass” design
- Low meter burden
- Power outage and restoration notification
- Multi-Channel Interval Data collection (1-60 minute intervals)
- Real-time outage and restoration notification

For additional information on Silver Spring Networks go to www.silverspringnetworks.com

Meter Form	Meter Class	Volts
1S	CL100	120
2S	CL200	240
2S*	CL320	240
3S*	CL20	240
4S*	CL20	240
12S	CL200	120
25S*	CL200	120

**These form/class/voltage combinations will not be available with initial product release, but will be released shortly thereafter. Please consult your GE Account Manager for more information.*

