

# Gas Interface Management Unit (IMU)



## Reliable, two-way wireless networking for gas meters:

- » Allows remote firmware upgrades and IMU configuration changes
- » Acknowledges receipt of data transmissions
- » Integrates with other Silver Spring devices to leverage the AMI network
- » Reduces labor costs for meter reading and advanced services
- » Improves customer service with proactive alerts

## Improve service and insight with Advanced Metering

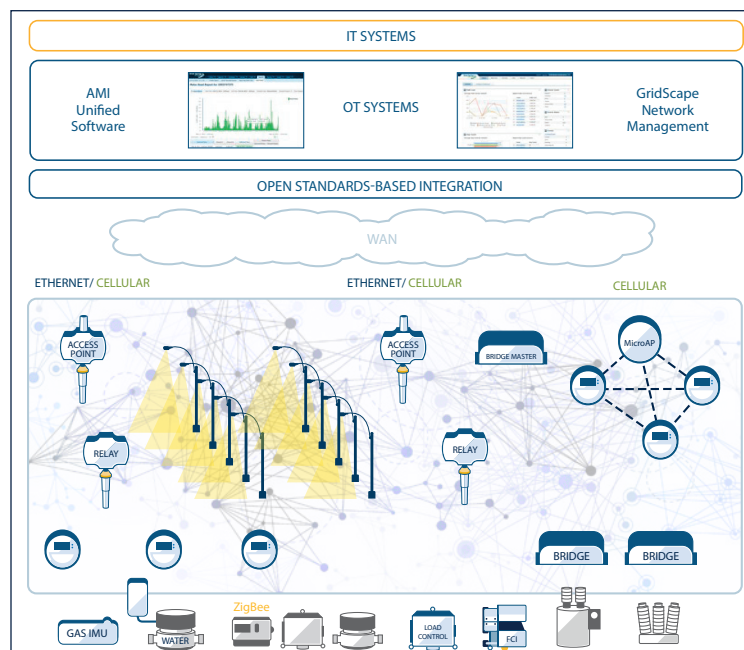
The Silver Spring® Smart Energy Platform combines network infrastructure, software, and professional services to enable a range of smart grid applications. Automating reads from gas meters is a critical piece of upgrading existing utility infrastructure. The Silver Spring Gas Interface Management Unit (IMU) enables utility companies to dramatically improve efficiency, provide their customers with insight and control, and ensure the reliable delivery of low-cost, advanced metering services. It allows remote meter reading and provides asynchronous alerts for leaks, meter tampering and other critical events in real time, cutting labor costs and ensuring extended uptime. The IMU seamlessly integrates with other Smart Energy Platform devices for greater efficiency, creating reliable communications between you and your customers.

## No gas service interruption

The residential and commercial/industrial Gas IMU is compatible with a wide variety of gas meters and can be field retrofitted without gas service interruption. This design allows superior customer service and reliability.

## IP-based Network

The Gas IMUs are fully compatible with Silver Spring's Smart Energy Platform, which is a secure, self-healing, mesh network built on IP. Based on open standards, the Gas IMU extends the information network from the central office to the customer. Use of IP provides the highest ROI, the least financial risk, the greatest number of proven security options, and the shortest pay-back cycle. An IP-based network enables utilities to add new products and advanced services as they become available.



The Silver Spring Smart Energy Platform supports a range of smart grid applications on a single open standards-based network.

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## Real-time Measurement

The Gas IMU is an integrated two-way radio and gas meter register that delivers real-time measurement and communication. This reliable, user-configurable, two-way device enables utilities to extend Advanced Metering to their residential gas meters.

### Features

The Gas IMU supports a broad array of user-configurable options:

- » Configurable number of transmissions per day – single or multiple per day (or less frequent than daily)
- » Flexible scheduling and any-time transmission to accommodate variable Gas Day start times
- » Support for any interval length evenly divisible into 60 minutes (1-6, 10, 12, 15, 20, 30 or 60 minutes)
- » Local, non-volatile storage of up to 5952 intervals (enough for two months of 15-minute intervals)
- » Over-the-air configuration changes from the back office
- » Power-saving mode for extreme cold weather operation
- » Configurable alarms for immediate or delayed transmission

## Specifications:

Communications	Data rate: 100 Kbps Frequency: 902-928 MHz Transmitter output: Up to 30 dBm (1 W) Receiver sensitivity: -97 dBm for 1% PER Spread spectrum: FHSS Antenna: Internal Two-way functionality: Over the air firmware upgrades and configuration changes, and acknowledgement of data transmissions  Single-channel operation for most applications; multi-channel for certain corrector-equipped commercial meters
Battery	Lithium thionyl chloride, C or D cell, at customer's option depending on the product powered by the battery
Environmental	Operating temperature: -40°C to +85°C (-40°F to +185°F) Humidity: 0% to 95%, non-condensing
Meters Supported	Residential: American, Sensus/Rockwell/Invensys, Itron/Actaris/Schlumberger/Sprague, National/Lancaster Commercial/industrial: Large diaphragm: American, Rockwell, Itron/Actaris/Schlumberger/Sprague Rotary and turbine: Pulser-equipped and instrumented meters from multiple meter manufacturers  Refer to <a href="#">Gas IMU Compatibility by Meter</a> for more information. (Requires SpringBoard login.)
Event Monitoring	Tamper Runaway Meter (Flow > Meter Capacity) Sensor Error Configuration Changes
Approvals	ANSI B109.1 UL 913, Class 1, Division 1, Group D FCC 15.247 CSA 22.2 No. 157

### About Silver Spring Networks

Silver Spring Networks is a leading networking platform and solutions provider for smart energy networks. Silver Spring's pioneering IPv6 networking platform, with over 22 million Silver Spring enabled devices delivered, is connecting utilities to homes and businesses throughout the world with the goal of achieving greater energy efficiency for the planet. Silver Spring's innovative solutions enable utilities to gain operational efficiencies, improve grid reliability, and empower consumers to monitor and manage energy consumption. Silver Spring Networks' customers include major utilities around the globe such as Baltimore Gas & Electric, CitiPower & Powercor, Commonwealth Edison, CPS Energy, Florida Power & Light, Jemena Electricity Networks Limited, Pacific Gas & Electric, Pepco Holdings, Progress Energy, and Singapore Power, among others. For more information please visit [www.silverspringnet.com](http://www.silverspringnet.com). Rev. 6/21/2016