



Synergize™

RF Network Data Collector Unit

Aclara's Synergize™ RF network Data Collector Unit offers unequalled performance and expandability while providing reliable, flexible, two-way communications for all utility meters, whether electric, gas or water.

The data collector is built on the foundation of Aclara's proven RF network for water and gas meters. It is an innovative, state-of-the-art solution that not only reads meters but also smart-infrastructure devices that monitor additional points on utility distribution networks.

With its compact design, the simple, reliable, and expandable data collector minimizes risk and maximizes financial performance today and tomorrow. The network allows all utilities – whether electric, water, gas or combination – to take advantage of a single, utility network solution that is both cost-effective and comprehensive.



Features and Benefits

Meets requirements under FCC Part 15, FCC Part 90, and Industry Canada radio technology requirements for Class-A digital devices

- Eliminates potential interference and competition from other radio devices and wireless services
- Promotes efficient communications by allowing additional channels to exist within the same spectrum

Electric, gas and water solutions use the same compact, NEMA-rated, stainless-steel enclosure

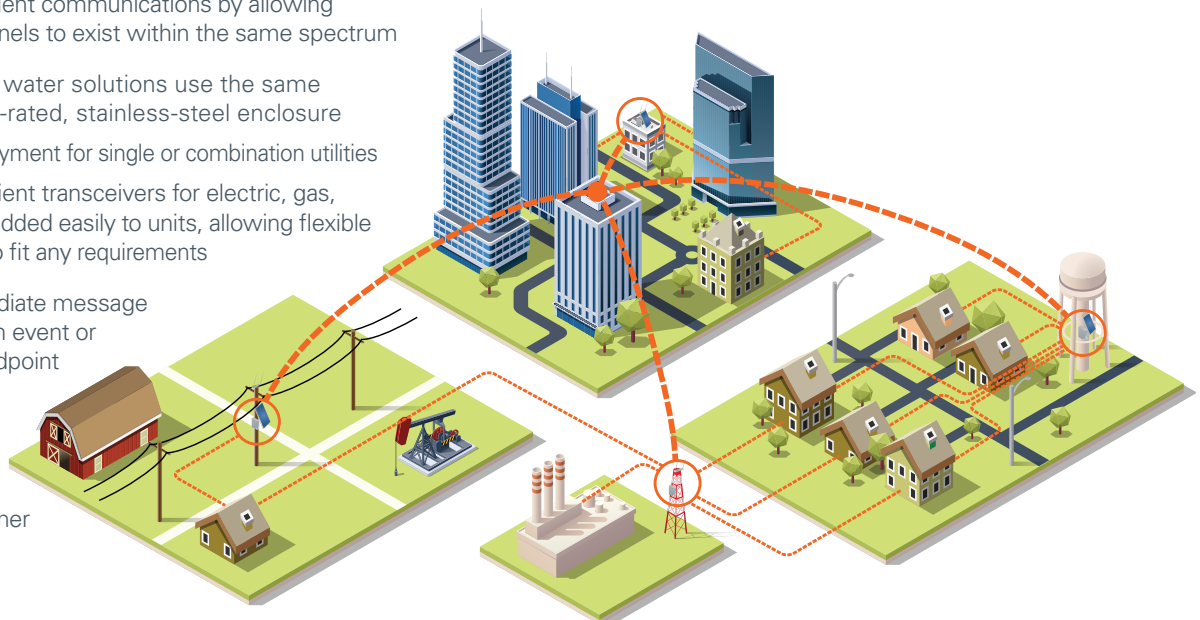
- Simplifies deployment for single or combination utilities
- Compact, efficient transceivers for electric, gas, and water are added easily to units, allowing flexible configuration to fit any requirements

Initiates an immediate message upon receipt of an event or alarm from an endpoint

- Allows quick decision-making to reduce cost, improve customer services

Improves overall cost of ownership

- Offers a flexible solution to install in diverse geographies with various population densities
- Deploys on existing utility backhaul networks



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Data Collector Features

- Network design ensures read rate needed to achieve billing accuracy without repeaters or similar devices
- Time synchronization ensures accurate time stamps
- Diagnostic data for calls, alarms, redundancy, location, battery, temperature, charging current, firmware version and passphrase status
- Priority reporting of error conditions
- Remote firmware downloads simplify network management
- Battery backup, power save mode and data retention during power outages
- Data-collector door access and tamper notifications
- Passphrase for data-collector console access

Options	
Antenna	<ul style="list-style-type: none"> • Single and multiple
Mounting Kits	<ul style="list-style-type: none"> • Standard wood, concrete or metal pole • Tower • Rooftop
Backhaul	<ul style="list-style-type: none"> • Ethernet • Wi-Fi and WiMAX • Fiber-optic • Cellular <ul style="list-style-type: none"> ◦ Supports major carriers and technologies
Power	<ul style="list-style-type: none"> • AC power with battery backup or solar-rechargeable with battery backup

Specifications		Electric	Water & Gas
Frequency, licensed	450-475 MHz	X	X
Internal electronics, enclosure	NEMA 4X	X	X
Input power consumption	5W	X	X
Seismic	Zone 4	X	X
Dimensions	22"h x 14"w x 8.25"d	X	X
DCU weight	55 lbs	X	X
Nominal power	12VDC	X	X
Approval	FCC Part 90, Industry Canada RSS-119	X	X
Power output		3W	2W
Uplink channels per card		8/16/24	1
Data speed		9.6 kbps	1.2/7.2 kbps
Operating temperature	-40°C to +70°C, 0 to 95% relative humidity	X	X
Storage temperature	-40°C to +85°C, 0 to 95% relative humidity	X	X
Battery			
Weight	23.3 lbs	X	X
Dimensions	6.9"h x 6.5"w x 4.9"d	X	X
Capacity	26 Ah	X	X
Solar Panel			
Weight	18 lbs		X
Dimensions	31.3"h x 26.5"w x 2"d		X
Power output	65 W		X

Aclara is a world-class supplier of smart infrastructure technologies to water, gas and electric utilities globally. Over 700 utilities in nine countries rely on proven Aclara solutions to connect with their customers. Visit us at www.Aclara.com and follow us on Twitter @AclaraSolutions.

Contact Aclara today!

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