



Synergize[®] RF Electric 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.



The data collector is built on the Aclara proven RF network for electric meters and provides the best total cost of ownership (TCO) for utilities looking for smart solutions. It is an innovative, state-of-the-art system that not only reads meters but also contains smart-infrastructure devices that monitor additional points on utility distribution networks.

The devices' confirmed outage notification system ensures correct and timely outage alarms. A 20-minute last gasp power enables up to six outage notifications for 99 percent message success. Data is delivered even in nested outage conditions, when damage is still present along an electric line after a larger problem has already been resolved. The data collector initiates an immediate message upon receipt of an event or alarm from an endpoint, and time synchronization ensures accurate time stamps, which allows for quick decision-making to reduce cost and improve customer services

FEATURES AND BENEFITS

- Device eliminates potential interference and competition from other radio devices and wireless services and promotes efficient communications by allowing channels to exist within the same spectrum; home run deployment method is highly reliable and latency free
- Offers a flexible solution to install in diverse geographies with various population densities and deploys on existing utility backhaul networks
- Network design ensures read rate needed to achieve billing accuracy without repeaters or similar devices
- Diagnostic data for alarms, redundancy, location, battery, temperature, charging current, firmware version and passphrase status allow utilities total control over system features
- Priority reporting of error conditions, data-collector door access, and tamper notifications guarantee that data is accurate and secure
- Battery backup, power save mode and data retention during power outages protect important data and operations

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DCU SPECIFICATIONS

Frequency	450-470 MHz (FCC licensed)
Internal electronics, enclosure	NEMA 4X
Input power consumption	5W
Seismic	Zone 4
Dimensions	22"h x 14"w x 8.25"d
DCU weight	55 lbs.
Nominal power	12VDC
Approval	FCC Part 90, Industry Canada RSS-119
Power output	3W
Uplink channels per card	8/16/24
Data speed	9.6 kbps
Operating temperature	-40°C to +70°C, 0 to 95% relative humidity
Storage temperature	-40°C to +85°C, 0 to 95% relative humidity
Battery specifications	6.9"h x 6.5"w x 4.9"d, 23.3 lbs Capacity: 26 Ah

OPTIONS

Antenna	Single and multiple
Mounting Kits	Standard wood, concrete or metal pole Tower Rooftop
Backhaul	Ethernet Fiber-optic Cellular: supports major carriers and technologies
Power	AC Power with battery backup or solar-rechargeable with battery backup