

AAT 8856 Wireless Concentrator

WIRELESS CONCENTRATOR - COLLECTS DATA FROM ADVANCED AMR TECHNOLOGIES (AAT) METER INTERFACE UNITS (MIU'S) AND TRANSMITS ENERGY DATA TO ENERGY INFORMATION AND CONTROL SYSTEM (EICS) PLATFORM



- Lower AMR Costs
- Reduce Energy Management Costs
- Collect Real-Time Data in 15 Minute Intervals
- Cover Thousands of Square Miles

TYPICAL USERS:

- Rural Co-Ops
- Energy Cooperatives
- Utilities
- Municipalities
- Colleges and Universities
- Energy Service Companies

The AAT 8856 Wireless Concentrator is part of the Advanced AMR Technologies (AAT) Energy Information and Control System (EICS). The AAT system is optimal for low meter density applications where the infrastructure costs of alternative energy communications technologies are prohibitive. The AAT 8856 Wireless Concentrator collects data from AAT Meter Interface Units (MIUs) which can be distributed over thousands of square miles. The data is then transmitted via the Internet to the EICS.

FAST, ACCURATE ENERGY USAGE DATA

AAT's wireless mesh network allows MIU's to be distributed over large geographical areas. Data hops from one radio to another and is almost instantly received by the AAT 8856 Wireless Concentrator. Within a few seconds the data is transmitted via the Internet to the EICS. AAT's wireless mesh network provides multiple paths for the data to reach the central AAT EICS platform. This redundancy translates to very high reliability, accuracy and speed. Unlike Power Line Carrier (PLC), tower based radio, cellular and telephone based AMR systems, the AAT wireless mesh system pro-

vides up to 8 different paths of communication with no single communication point of failure.

RAPID DEPLOYMENT

The flexible architecture of the EICS platform combines with the AAT Wireless Concentrators and MIUs, for quick and easy deployment without phone lines, wiring or cabling. No special radio expertise is required as each MIU automatically enrolls and configures itself into the fixed wireless radio network

COST EFFECTIVE SOLUTION

High infrastructure costs for Power Line Carrier and unlicensed radio solutions and high monthly fees for telephone or cellular based services can be eliminated with AAT systems. The MIUs provide the communications network to read meters remotely, eliminating the need for physical reads or resets. High reliability, low cost of ownership and easy economical installation make AAT solutions the first choice for AMR and energy management. Advanced AMR's EICS platform can support and monitor multiple energy services from a single platform, providing a cost effective integration option.

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TECHNICAL SPECIFICATIONS

Radio

- Licensed High Power Frequency for longer range than unlicensed bands
- 2 Watt transceiver
- UHF 450-470 MHz frequency range
- NTIA narrowband compliant (12.5 kHz)

Diagnostics

- 4 radio diagnostic LED lights
 - *Heartbeat, wait, receive, transmit*
- 3 server diagnostic LED lights
 - *Link, service activity, internet activity*
- RJ-12 Radio Diagnostic port
- RJ-12 Ethernet diagnostic port

Antenna

- 6 dB with 100' RG-8 cable with 2 N-Male connectors

Power Backup

- UPS recommended (optional)

Power Supply

- 100V - 240 Voltage AC
- Optional step down transformer available for 270 to 240 VAC

Operating temperatures

-22°F – 140°F (-30°C – 60°C)

Weight

23.4lbs. (10.64 Kg)

Enclosure Dimensions

NEMA4 Weather-tight Case

15" x 13" x 7" (38.1 x 33 x 17.8 cm)

Enclosure Material

Weather tight NEMA 4X Poly Carbonate (PBT)

