

FIXEDLINX™ REPEATER



ROBUST DATA GATEWAY

The Repeater is the primary collection point of field generated data from Boosters and/or DIALOG 3G endpoints including meter consumption and alarms within the FixedLinx fixed network technology system. Data is not stored in the Repeater but 'pushed' in real time through to the Concentrator where it is processed, cleaned and made ready for full use by the utility management and interdepartmental personnel.

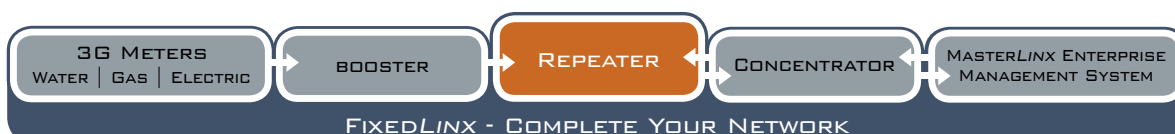
The clean modular design of the Repeater enables maximum flexibility in the chosen technology path forming the communication backbone with the utility. Our standard configuration utilizes the proven I.E.E.E. 802.11 Standard (WIFI/ WiMAX) for reliable point-to-point communication. However, topographic and other environmental considerations may suggest a preferred technology path such as GPRS cellular modem, or where existing DSL or Fiber Optic connections exist the Repeater can piggy back on these common TCP/IP pathways.

The Repeater boasts a highly modular, flexible architecture to ensure rapid startup time and precise customization that properly addresses each utility's unique deployment circumstances. Repeater is designed with readily available commercial-grade components to further enhance flexibility and provide the lowest cost effective design possible.

FEATURES & BENEFITS:

- * Collects field data from Boosters and directly from standard 3G endpoints
- * Modular flexible architecture ensures maximum cost-effective design
- * Fully ruggedized housing and durable elements enable placement in any environmental condition or inclement weather
- * Data redundancy, verification, and encryption ensure complete integrity from meter endpoint to utility

**Flexible Installation Options | Backwards Compatible with all Existing 3G Meters
Low Antenna Height Requirement | Wide Coverage Footprint**



TECHNICAL SPECIFICATIONS:

Power - 120 V < 1A power consumption. Solar Power capable. No battery backup / UPS required.

Environmental - NEMA 4 environmental rating. Temperature? Humidity? Durable transient static protection throughout Repeater housing with integral antenna lightning arrestor. Giga Joule rating? Internal wiring structures feature 18K gold connectors for maximum connectivity, data integrity, and corrosion resistance.

Placement - One repeater is required per approximate 2.5 – 3 square miles. Default location for Repeater is using existing infrastructure 60' or greater in height such as water towers or civil service sirens. Standard antenna tower configurations include concrete pole and tripod designs dependent upon local environmental factors such as seismic, hurricane and/or tornadic occurrence.

Data Structure - FixedLinx's multiple parallel receiver architecture allows for simultaneously to processing nearly 1.3 million reads per Repeater per day. Data encryption is standard to ensure data integrity. Data verification is provided through a proprietary algorithmic framework. Data redundancy is available at the core meter level through integral data logging standard at every 3G endpoint. Remote diagnostics inform in real time when communications drop off line, environmental conditions change, monitor online endpoints, and allow for modifying communication frequencies, updating firmware, and tweaking system performance. Data structure is further safeguarded by use of an advanced power supply featuring very low noise to ensure the integrity of data communications.

Critical Components - CISCO WIFI, DIGI Serial to IP converter, Phoenix Power Supply, Triple 3G transceivers and high oxygen content wiring with 18K gold plated connections.



Master Meter, Inc.

101 Regency Parkway, Mansfield, TX 76063

Toll Free: 800-765-6518 • Main Line: 817-842-8000 • FAX: 817-842-8100

MASTERMETER.COM

©2008 Master Meter, Inc. All rights reserved. DIALOG and Master Meter are registered trademarks of Master Meter, Inc. Master Meter reserves the right to make modifications to the products described herein at any time and without notice. U.S. Patent Nos. 7,343,795; 7,135,986; 6,819,292; 6,954,178; and others pending.

Repeater1108

