DYNAMIC RATINGS

iBRIDGE
NETWORKING AND COMMUNICATIONS SOLUTION

DELIVER DATA
SEAMLESSLY WITH
CONTINUOUS RELIABILITY

RESPONSIVE
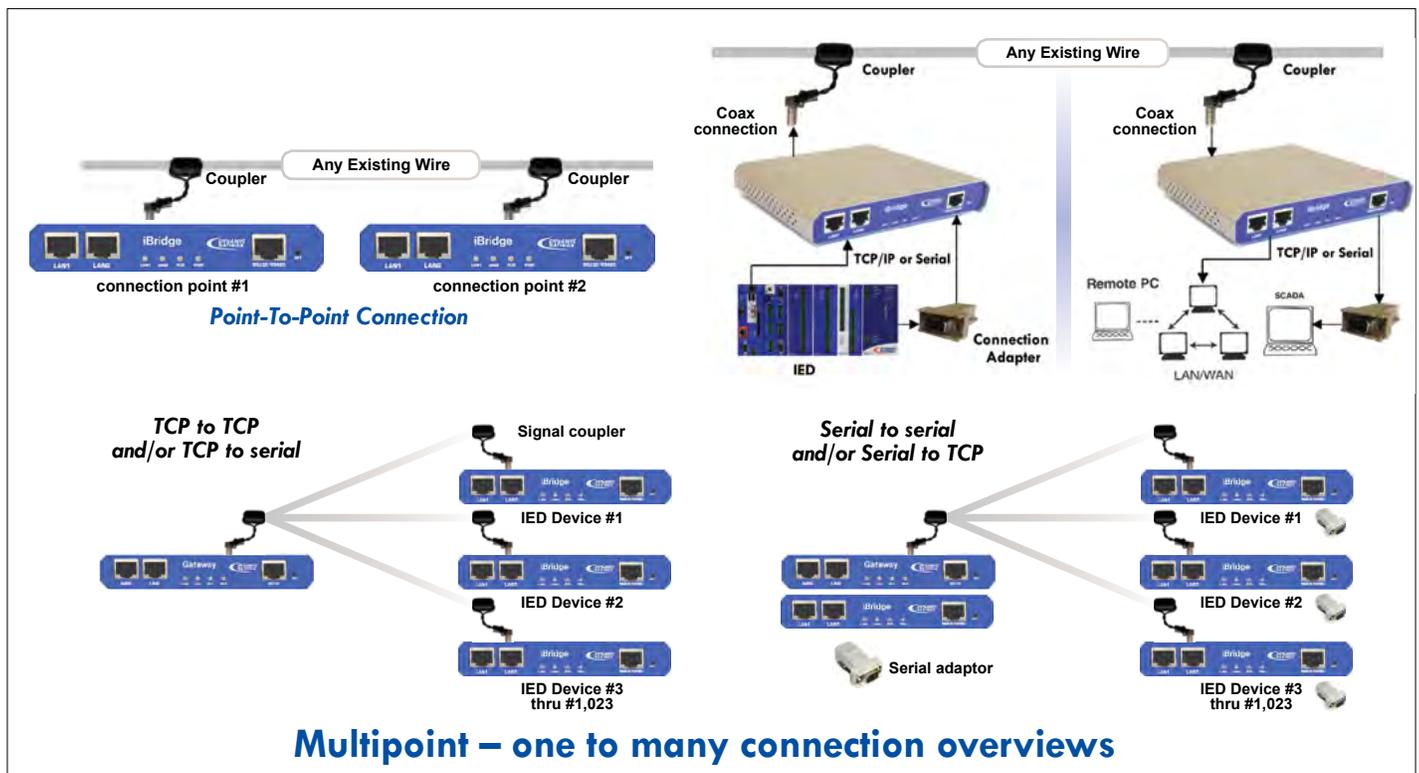ASSET HEALTH SOLUTIONS

SIMPLE AND SECURE DATA CONNECTIONS.

Installing data connections in a substation can be expensive and time consuming. The Dynamic Ratings iBridge product saves time and money while avoiding the security concerns associated with wireless antenna systems. The iBridge inductively couples the data onto existing conductors, providing the ability to send serial and ethernet based data utilizing hardware that can be installed in just a few minutes.

The iBridge Networking and Communications Solution delivers data seamlessly from IEDs (Intelligent Electronic Devices), RTUs and cameras with continuous reliability. Networks can be configured as point-to-point or multidrop configurations. 128-bit encryption provides enhanced security. Existing AC or DC wires can be used, which eliminates the cost of trenching, permits and additional cables. Schematics often need no modifications. The iBridge reduces project installation time and cost, helping project managers complete projects on time and on budget.

The iBridge product line consists of three hardware devices: the iBridge, Gateway and eXtender. The iBridge Networking and Communications Solution uses snap-on inductive signal couplers to transmit data over existing wires. Signal couplers are conveniently available in 9, 13, 18, or 25mm core sizes.

The products come in compact packaging and have multiple power options, making them easily adaptable to existing sites. The connection adapters support many different types of incoming or outgoing signals. The system communicates with DNP, IEC 61850, Modbus and other standard protocols. The iBridge IED Networking and Communications Solution helps you access more data simply and securely.

No trenching required.

Point-To-Point Connection

Multipoint – one to many connection overviews

System Components

The iBridge, Gateway and eXtender are all designed to accept input power of 100-240 VAC or 28-250 VDC and can be provided with a clover style (IEC-320-C5) power connector or a field wiring plug. The system can be used with DNP, Modbus, IEC 61850 and proprietary protocols.

iBridges can be networked using a Gateway or two units can be configured as a point to point connection.

iBridge

The iBridge allows you to create a TCP/IP network over any existing wire, connecting remote devices with computers, gateways, routers, and more. The iBridge can also convert DNP or Modbus data from a serial format to the same protocol in TCP/IP.

Gateway

The Gateway device facilitates multipoint connectivity. Additionally, Gateway devices allow for the configuration and monitoring of an iBridge system and the associated IP ingress/egress of communication through a LAN and chosen signal wire.

eXtender

The eXtender is an amplifier available to extend the range of transmissions. This can be installed in situations where the communications distance between iBridge devices is limited due to the quality or layout of wiring.

Inductive Couplers Available for Many Wire Sizes

Units Can be Built for Either a Power Cord or Wiring Plug

Data is vital to maintaining the health of assets. The iBridge Networking and Communications System is a convenient way to collect more data. It is easy to implement, cost effective and adaptable, helping you collect data simply and securely.

SPECIFICATIONS

Power Requirement:	48-250 VDC or 100-240 VAC 50/60 Hz
Dimensions	152 mm x 109 mm x 28 mm (6.0 in. x 4.3 in. x 1.1 in.)
Temperature Range	-40°C to +70°C (-40°F to +158°F)

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We are the industry **Responsive Asset Health Solutions** provider. We use comprehensive end-to-end products and services to improve customers business performance.