



BROCHURE

iBridge

Dynamic Ratings

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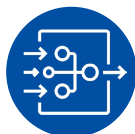




**DYNAMIC
RATINGS**

iBridge

Networking & Communications Solution



Delivers Data Seamlessly



Adaptable



Easy to Implement

RESPONSIVE

ASSET HEALTH SOLUTIONS

Simple and Secure Data Connections

Installing data connections in a substation can be expensive and time consuming. The iBridge 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.



System Components

The iBridge, Gateway and eXtender are designed to accept input power of 100-240 VAC or 48-250 VDC and are provided with a clover style (IEC-320-C5) power connector. 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.



Delivers Data Seamlessly

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 installation time and cost, helping managers complete projects on time and on budget.



Adaptability

The products come in compact packaging and have standard power input ranges, 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.



Easy to Implement

The iBridge Networking and Communication Solution is easy to install with no trenching needed. The iBridge product line consists of three hardware devices: the iBridge, Gateway and extender. This 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.

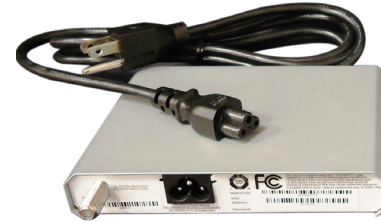


eXtender

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.

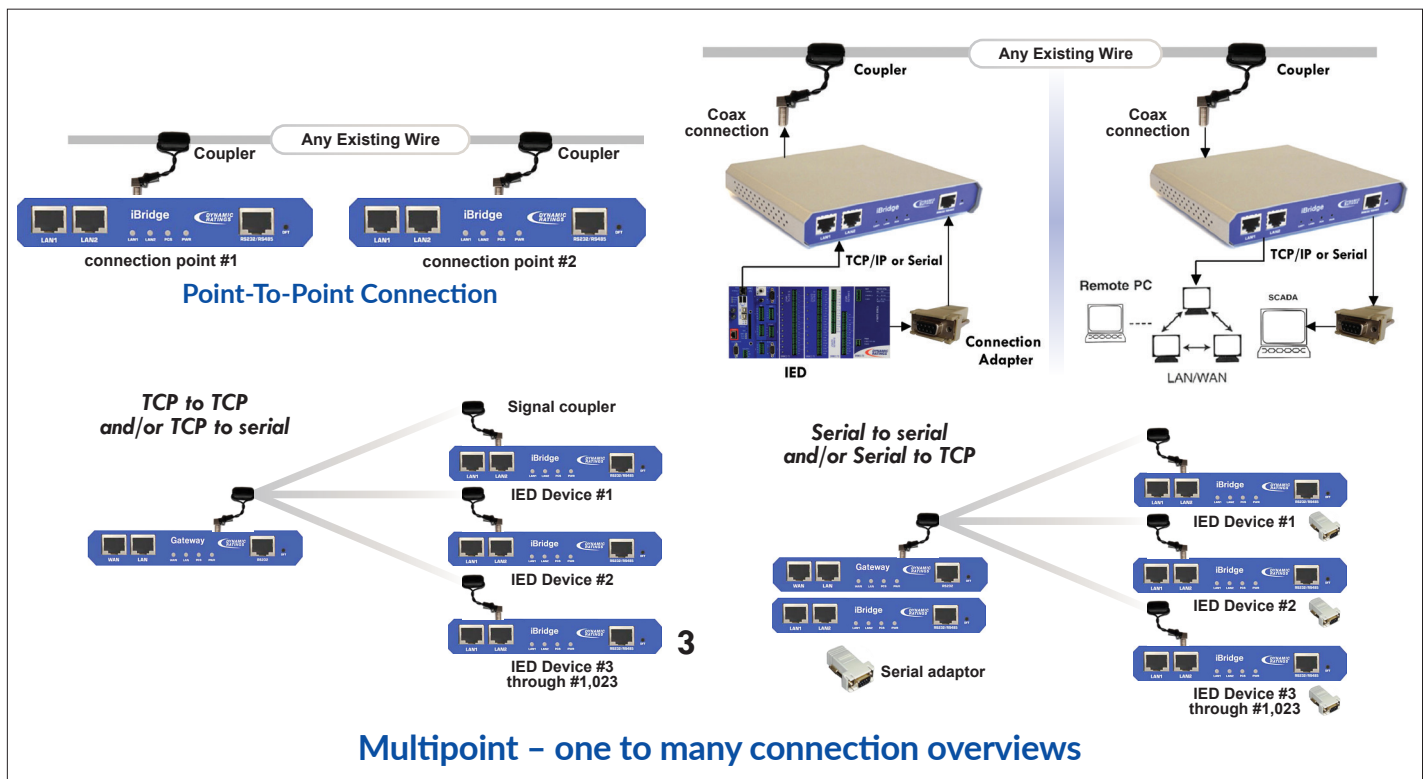


Inductive Couplers Available for Many Wire Sizes



Units Are Built for a Power Cord

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

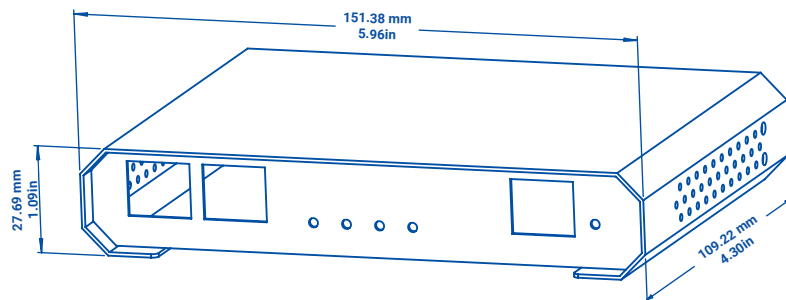
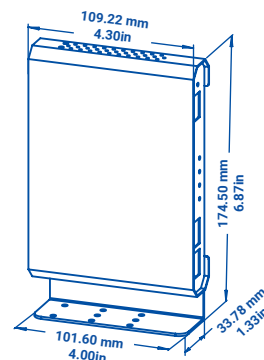
Power Requirement	48 - 250 VDC or 100 - 240 VAC 50/60 Hz
Dimensions	152 mm x 109 mm x 28 mm (6.0 in. x 4.3 in. x 1.1 in.)
Temperature Range	-40°C to +70°C (-40°F to +158°F)

How to Order - Devices

Part Number	Description	Dimensions W x D x H	Weight
CE-520	iBridge with a 1.83m / 6ft. power cord with NEMA 5-15 plug	152 x 109 x 28 (mm)	544 (g)
CE-530	Gateway with a 1.83m / 6ft. power cord with NEMA 5-15 plug	152 x 109 x 28 (mm)	544 (g)
CE-540	eXtender with a 1.83m / 6ft. power cord with NEMA 5-15 plug	152 x 109 x 28 (mm)	544 (g)

How To Order - Accessories

Part Number	Description
CE-562	One RS-232 (9 pin) connection adaptor
CE-564	One RS-232 (25 pin) connection adaptor
IND2000N	One 9mm / 0.35 in. signal coupler
IND2020N	One 13mm / 0.51 in. signal coupler
IND2040N	One 18mm / 0.71 in. signal coupler
IND2100N	One 25mm / 0.98 in. signal coupler
KIT-520	A point-to-point system that includes two CE-520 iBridges and two ND2000N 9mm couplers with power cord
SLRM5R42N0R	One RS-232 and RS-485 universal adapter
SLRS5DIN00RXX	One DIN rail mount kit



An ISO 9001, ISO 14001, ISO 27001, ISO 45001 Certified Company.

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