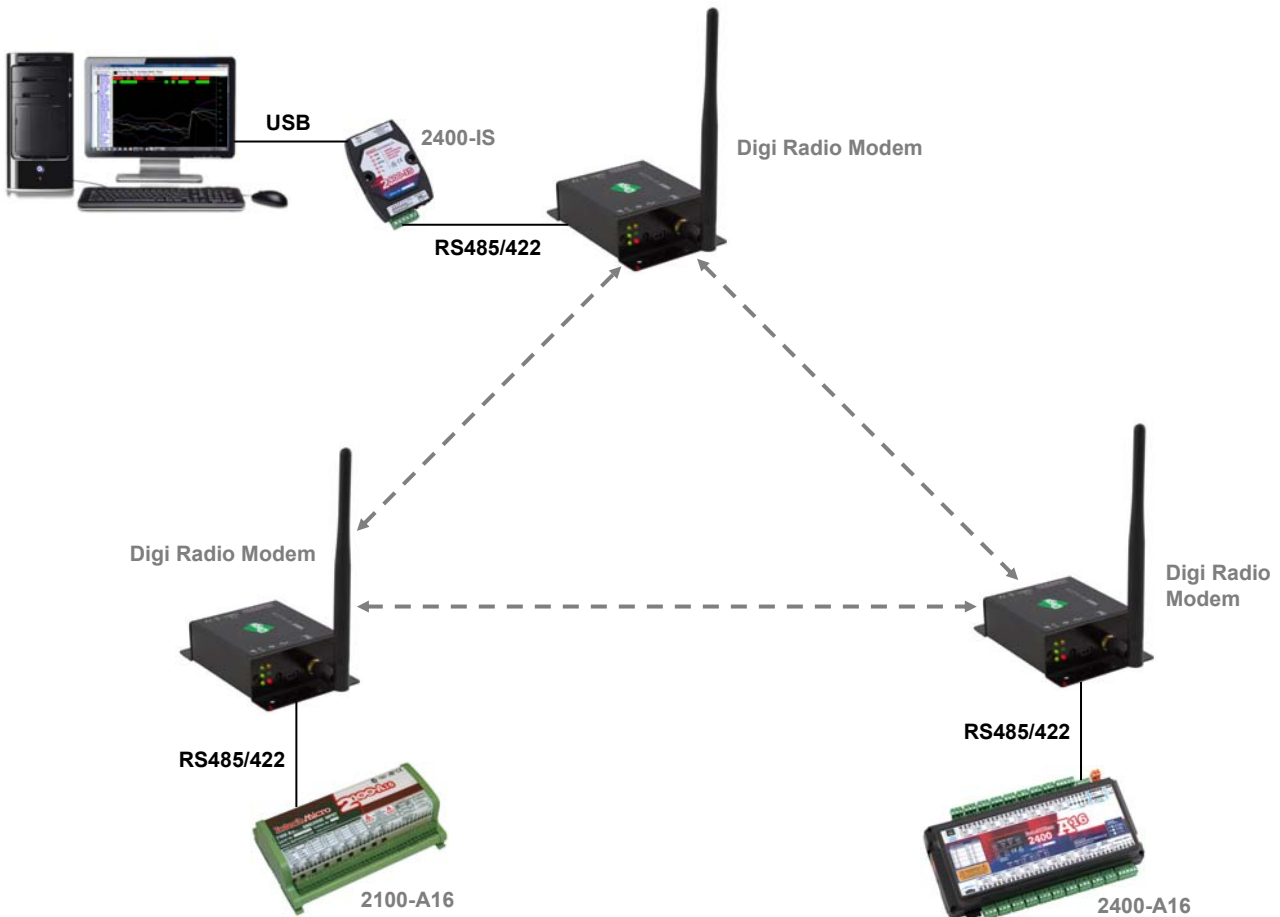


Intech Wireless

Digi[®] Radio Modems

Communication Modules for RS485/RS422

The Digi[®] Radio Modems are used for long-range, low speed wireless communications. Powered by DigiMesh[®] networking protocol, featuring dense network operation using mesh technology with frequency hopping spread spectrum capability. Operating in the 900MHz license-free ISM band (Industrial, Scientific and Medical bands), the Digi Radio Modems can wirelessly connect a variety of Intech RS485/422 devices across many applications including remote monitoring.



Features:

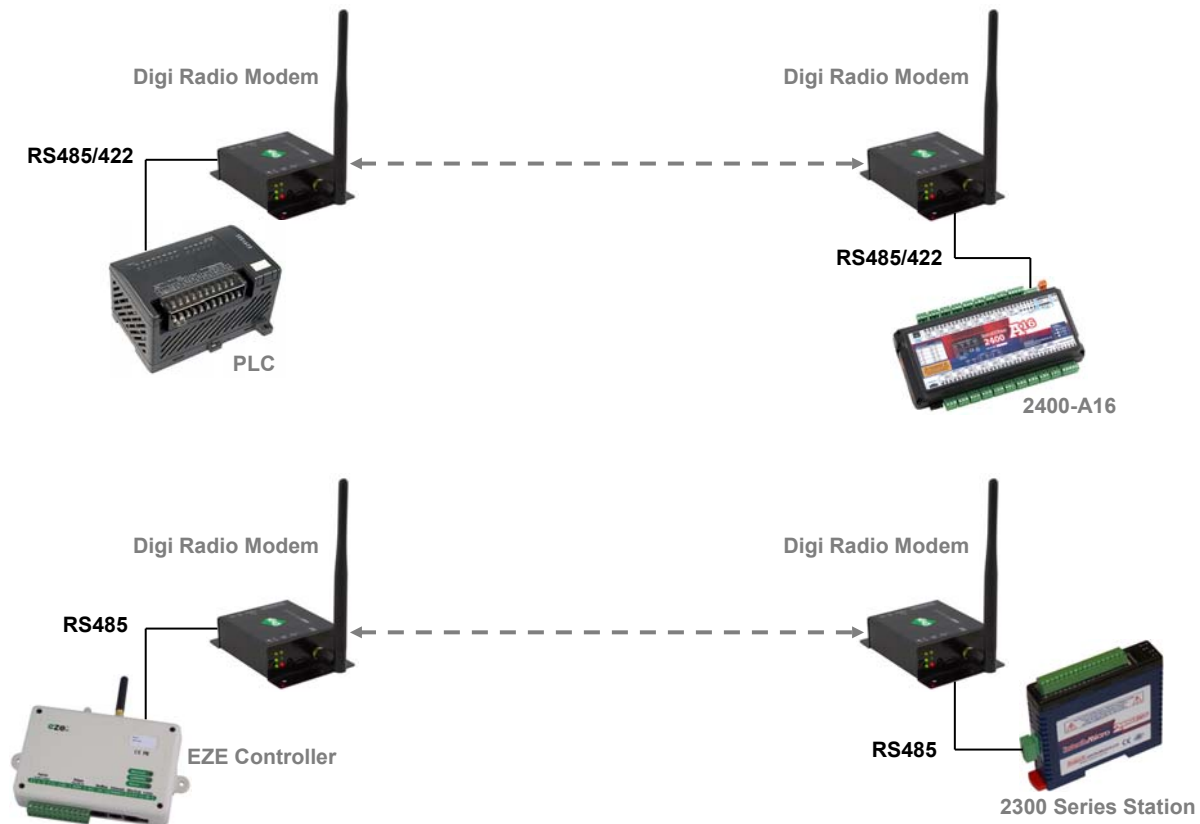
- Wireless communications for RS485/422 devices.
- Easy to use - no configuration required.
- True peer-to-peer communications (no "master" required).
- Mesh, point-to-point and point-to-multipoint topologies supported.
- Operates on the license-free 900MHz ISM band (Industrial, Scientific and Medical).
- LED's on front to indicate the wireless signal quality.
- Power Supply 7~30Vdc.

Specifications

Wireless Range*:	Up to 300m indoor urban, up to 6.5Km ideal line of sight.
Wireless Frequency:	915MHz~928MHz.
Frequency Hopping:	8 hop sequences share 25 channels, 64 channels available.
Wireless Power:	Default 24 dBm, 250mW (can be factory set for less).
RF Data Rate:	200kbps.
Communications:	RS485 or RS422 (can be both if using a 2400-IS converter).
Interface Data Rate:	125~65,000bps
Network Topology:	Transparent: Point to Point, Point to Multi-Point or Mesh.
Power Supply:	7~30Vdc, plug pack included.
Power Consumption:	140mA at 9Vdc.
Antenna Connection:	RP-SMA.
Antenna Impedance:	50 ohms unbalanced.
Operating Temperature:	-40°~85°C.
Case Size:	H=114mm, W=70mm & D=29mm.
Height with Antenna:	270mm.
Weight:	150g.
Compliances:	FCC PART 15.247, IC, C-TICK, ROHS.

***Wireless Range: Ideal line of sight** refers to conditions with no surrounding trees, buildings or RF interference, a completely unobstructed Fresnel Zone.

Examples of Digi Radio Modem Connections:



Product Liability. This information describes our products. It does not constitute guaranteed properties and is not intended to affirm the suitability of a product for a particular application. Due to ongoing research and development, designs, specifications, and documentation are subject to change without notification. Regrettably, omissions and exceptions cannot be completely ruled out. No liability will be accepted for errors, omissions or amendments to this specification. Technical data are always specified by their average values and are based on Standard Calibration Units at 25°C, unless otherwise specified. Each product is subject to the 'Conditions of Sale'.

Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independent fail-safe back-up system must always be implemented.

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