



Trusted **Wireless** goes serial

RS-232 and RS-422/RS-485

Data transmission, robust and reliable
over long distances

Wireless data transmission system for RS-232 and RS-422/RS-485 serial interfaces

Using the RAD-ISM-2400-DATA-BD wireless module for serial interfaces, it is possible to network several controllers or other serial I/Os simply and fast with wireless technology. The proven Trusted Wireless technology guarantees safe and reliable transmission of your process data in a harsh industrial environment. With a transmission speed of 250 kbps, the controller of your control room can communicate bidirectionally as a master with up to 254 slaves, either directly or via repeaters.

Single hop

Slave

Slave

Master

Convenient system diagnostics

Connect your laptop or PC via the RS-232 interface with the master. The diagnostics software supplies you with current data, e.g. status of the wireless connection, RSSI signal, voltage supply, etc.

One for everything

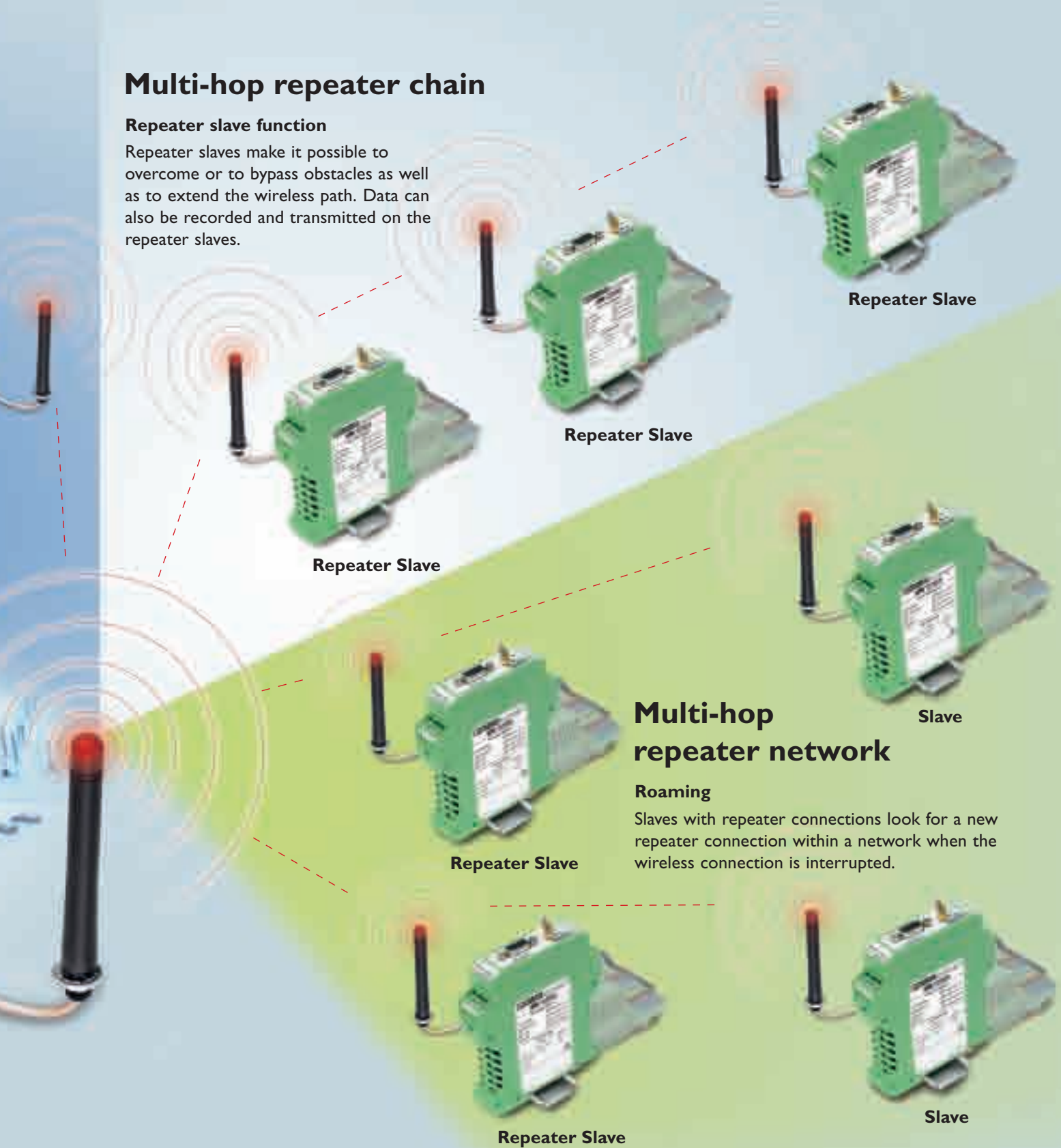
With the software tool, you can easily determine whether the module should be used as a master, slave or intermediate repeater station.



Multi-hop repeater chain

Repeater slave function

Repeater slaves make it possible to overcome or to bypass obstacles as well as to extend the wireless path. Data can also be recorded and transmitted on the repeater slaves.



Multi-hop repeater network

Roaming

Slaves with repeater connections look for a new repeater connection within a network when the wireless connection is interrupted.

Technical data

RAD-ISM-2400-DATA-BD, Order No. 2867869

- Proven Trusted Wireless technology with FHSS method
- License-free and cost-free 2.4 GHz frequency band
- Stable wireless connection with up to 2 km range
- Transmission speed up to 250 kbps gross (115 kbps net)
- Supply voltage 12–30 V DC
- Typical current consumption: 50mA@24V DC

Diagnostics are part of the package

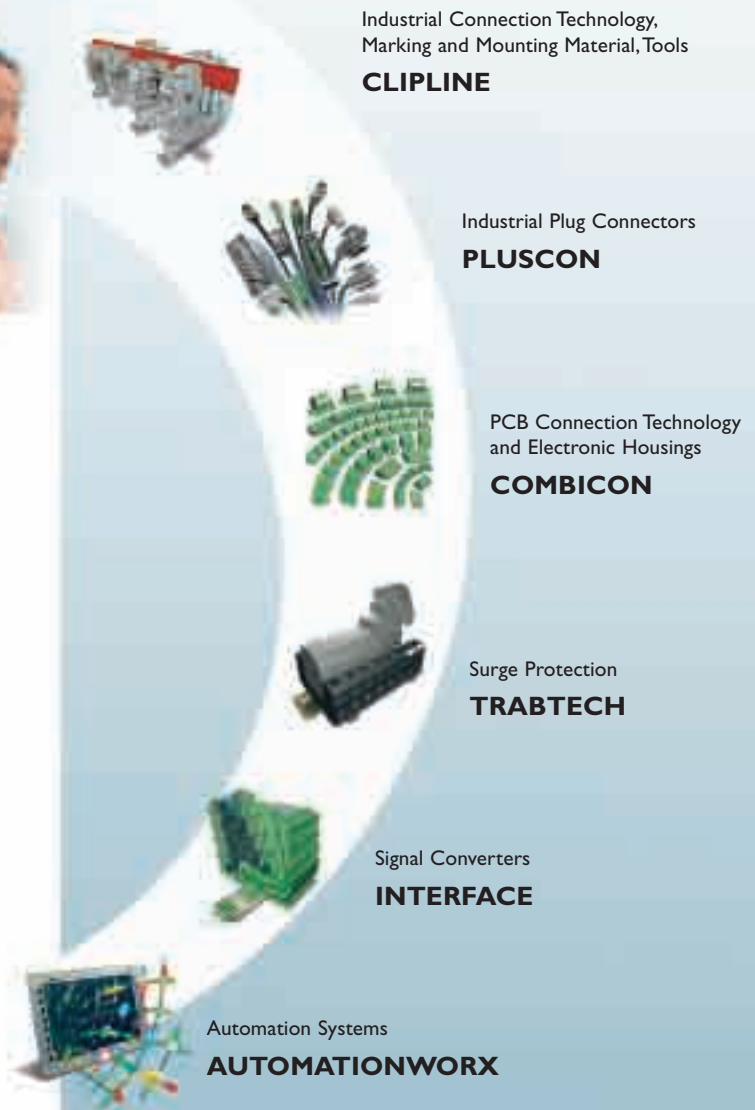
Power and status LEDs make local diagnostics possible on the slaves. In addition, the floating RF link contact and the analog RSSI signal make remote diagnostics possible.



Further information on the products introduced here and on the world of solutions from Phoenix Contact can be found at www.catalog.phoenixcontact.com



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