# lumenradio
Creating Connectivity for a Better Tomorrow

# W-Modbus

## MODBUS RTU TROUGH RELIABLE WIRELESS MESH

W-Modbus replaces the Modbus RTU cable with a reliable wireless mesh - it eliminates time-consuming installation planning, cabling, daisy-chaining and trouble-shooting.

Avoiding cabling has never been easier. With W-Modbus it is easy to retrofit connectivity to already installed devices, converting a wired installation to a wireless network. For greenfield installations, the product provides increased flexibility and significant cost savings - both during installation and steady-state operation.

## PATENTED TECHNOLOGIES

The W-Modbus product is built upon LumenRadio's patented meshing technology called MiraOS - providing ultra-reliable device-to-device connectivity, easy installation, concurrent Bluetooth and extended indoor range.

MiraOS is used in a large number of different applications around the world for building automation, HVAC control, lighting control and industrial sensor networks.

## Modbus

## INSTANT INSTALLATION

3 simple steps to commission the W-Modbus network in minutes - just power up and connect your Modbus device and you are up-and-running. Avoids time-consuming and un-esthetical cabling
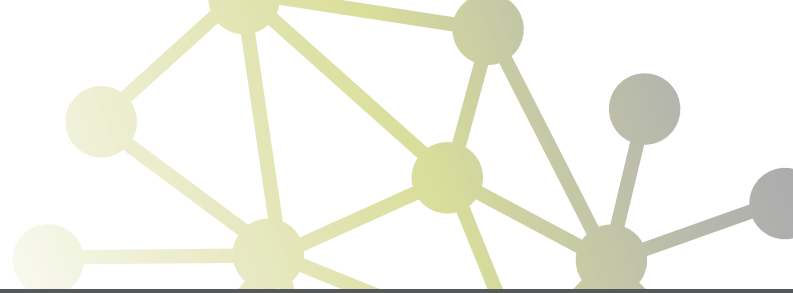
## UNIQUE RELIABILITY

By combining our patented MiraMesh and Cognitive Coexistence technology, each W-Modbus possess an unparalleled reliability and resilience towards interference

## MODULAR FLEXIBLE CONFIGURATION

You no longer need to have the same baud rate in the whole network - supports individual settings for each device.
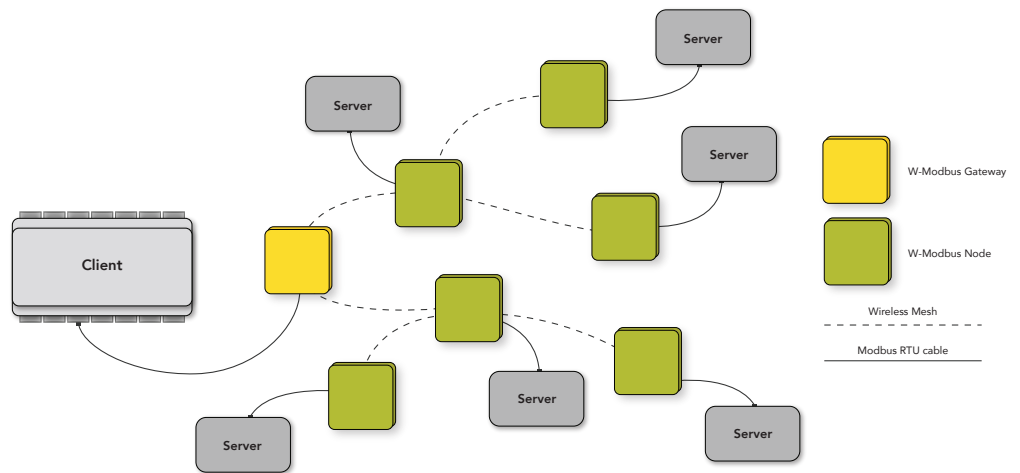
## FEATURES

- Out-of-the-box installation – just power up and connect to your Modbus device and you are up-and-running.
- Instant commissioning – 3 simple steps, commisioning the W-Modbus network in  minutes
- Mesh network – cover an entire building, utilizing the mesh network as your infrastructure.
- Range – 500 meters (line-of-sight) per hop in the mesh network

- Cognitive Coexistence – LumenRadio's patented technology provides industrial-grade reliability and immunity to interference.
- Self-optimizing network – the mesh network will always find the best way to send messages through the network between devices.
- Modular configuration - you no longer need to have the same baud rate in the whole network, supports individual settings for each device.

## SYSTEM OVERVIEW

A W-Modbus network consists of a single W-Modbus Gateway connected to the Modbus Client using a Modbus RTU cable and up to 100 W-Modbus Nodes, each of them connected to one Modbus Server over a Modbus RTU cable.

The W-Modbus network is built on LumenRadio's MiraMesh, a self-forming and self-healing wireless mesh technology.



## GET IOT READY TODAY add your own uniquness tomorrow

### Step 1



**RAPID TIME-TO-MARKET: W-MODBUS**
- Minimum development effort
- Easy installation and maintenance

### Step 2



**SCALE: THE W-MODBUS MODULE**
- Pre-certified modules
- Cost reduction from W-Modbus

### Step 3



**CUSTOMIZED - MIRAOS**
- W-Modbus binary
- Add your own IoT functionality



With patented technologies and an unique operating system, LumenRadio provides ultra-reliable mesh connectivity for the most business critical applications.

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