

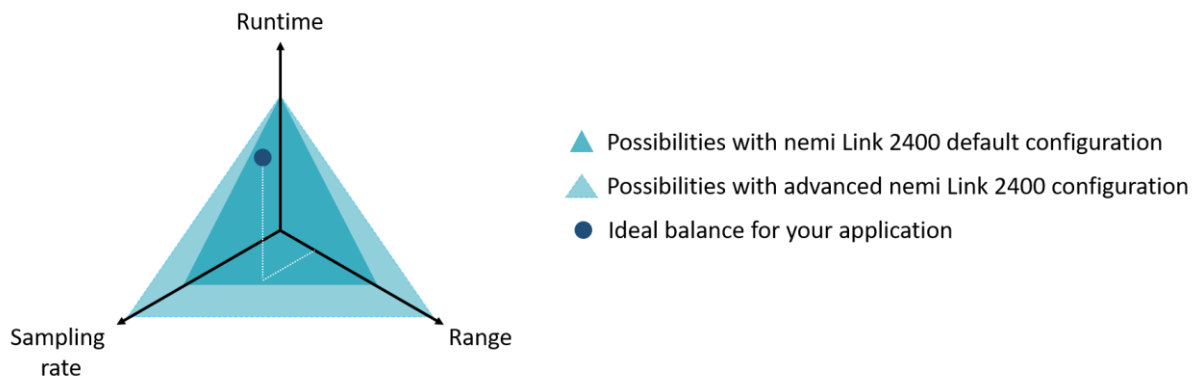
nemi Link 2400

High-Efficiency Wireless Technology

Our own radio technology nemi Link 2400 is a **wireless, battery-powered sensor network** in the 2.4 GHz frequency band with star topology and one receiver module. This high-speed network enables the reliable transmission of data at high sampling rates. The **high efficiency** of our robust radio technology **enables very long battery runtimes** of our products. Our wireless sensors synchronize their internal clocks to the clock of the receiver module with extremely small deviations.

Radio technology nemi Link 2400		
Radio channel	between 2,402 – 2,478 (adjustable in 1 MHz steps)	MHz
Time synchronization deviation	< 100	µs
Sensor nodes per receiver module	up to 8	-

Whether rotating, moving or stationary applications, short or long ranges, high or low sampling rates, long or short battery life, there are countless applications for wireless sensors and the requirements are diverse. Even the standard settings of our nemi Link 2400 high-speed wireless technology meet the requirements of many applications and enable quick setup and ease of use. To optimize the measurements of a use case, nemi Link 2400 offers the possibility to adjust the number of sensor nodes per radio channel and the radio speed to achieve the perfect balance between range, data rate and runtimes for each application.



This table provides an overview of the setting options for the nemi Link 2400 network:

Radio Speed	Range		Sampling rate	Energy efficiency
2 Mbit/s	indoor	20 m	36 kHz*	Highest energy efficiency -> longest battery runtimes ↑
	urban	50 m		
	theoretical	300 m		
1 Mbit/s	indoor	50 m	15 kHz*	
	urban	125 m		
	theoretical	750 m		
500 kbit/s	indoor	90 m	8 kHz*	
	urban	225 m		
	theoretical	1800 m		
125 kbit/s	indoor	140 m	3 kHz*	Lowest energy efficiency -> shorter battery runtimes
	urban	350 m		
	theoretical	2100 m		

* The values in this table are standardized to a resolution of 24 bit. Not all sensor nodes have the same resolution. You can calculate the exact total sampling rate for your application in the Configuration Tool on our [homepage](#).

Use our [nemi Link 2400 configuration tool](#) to find out how you can optimize the nemi Link 2400 settings for your application. Details are explained in this [video](#).

nemione® products in the nemi Link 2400 wireless network

nemione® sensor nodes are sending their data via nemi Link 2400 wireless technology to a nemione® receiver module.

Compatible sensor nodes in the nemi Link 2400 wireless network

The following sensor nodes are available under the nemione® trademark. They are compatible with all nemione® receiver modules in i4M's nemi Link 2400 network.



[nemi G+](#)



[nemi G+ nano](#)



[nemi DAQ](#)



[nemi DAQ nano](#)

Compatible receiver modules in the nemi Link 2400 wireless network

The following receiver modules are available under the nemione® trademark. They are compatible with all nemione® sensor nodes in i4M's nemi Link 2400 network.



[nemi EdgeBase](#)



[nemi Connect](#)



[nemi Log \(+ cellular\)](#)

Information on radio configurations of the sensor and receiver products is provided upon purchase of the products.

Contact

nemione® is a trademark of

i4M technologies GmbH
Försterstrasse 5
52072 Aachen
+49 (0) 157 34 10 59 30
info@nemi.one

www.nemi.one
www.i4M-tech.de

Copyright © 2024 i4M technologies GmbH
Subject to changes