



RfmApi Software

Application programming interface

```

36 public static void main(String[] args) {
37
38     try {
39         // Create new reader instance
40         Reader reader = new Reader("com.rfmic
41
42         // Connect to reader
43         String host = "172.16.1.111";
44         int port = 4333;
45         Logger.info("Connecting to the reader
46         Future<Boolean> connected = reader.co
47
48         // Wait for reader connection

```

APPLICATIONS

- IoT sensing
- Building performance
- Factory 4.0 monitoring
- Data center monitoring
- Cold chain shipping

KEY FEATURES

- Java-based of the PC
- Drives RFM5108 reader
- Smart Passive Sensing™
- Aggregate data w/ RFM5109
- Source example code
- Eclipse project jar

Simplifies RF reader programming

The RFM5140 RfmApi™ software provides a Java programming library to simplify the most common programming activities and interactions between Smart Passive Sensing™ devices and RF readers. Readers have great flexibility but can seem complex to new users. The RfmApi abstracts this complexity into a simple to use interface.

Keep your attention on the application

Software developers can stay focused on the application-level code, instead of being forced to deal with all the technical details of readers and sensors. The algorithms integrated into the RfmApi help turn raw sensor data into trusted data, which is used to generate insights and drive business decisions.

Software to simplify and speed integration tasks

The RfmApi sensor management software optimizes reading algorithms to speed integration of sensor data into larger systems. Source code for demonstration programs illustrates how the RfmApi is used. Use the RFM5108-B reader to collect data, or aggregate that data through a smart fixed reader like the RFM5109.

Compliance and configurations

RFM5140 RfmApi software is included with the RFM5108 reader works across regions.

RFM5140 RfmApi Software



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Fixed wireless reader software characteristics

PARAMETER	VALUE
Manage reader settings	Radio configuration, serial number, hwVersion, swVersion, antenna counts, ID, regional settings, max output power; antenna select, link frequency, RX decoding method, TX modulation, sensor monitoring mode, network connect, settings summaries, get data, disconnect
Advanced sensor settings	Read algorithms, calculation modes, averaging modes and count, linear fit algorithm, verbose data modes, real-time averages, time of read, OCRSSI signal strength, SENSOR_CODE, TEMPERATURE, and TEMPERATURE_CALIBARATION_PARAMS, IC management, sensor data management, settings summaries, select command filter targets, sensing device ID
Sensor Read Configurations	Current reader power, number of read attempts, target number of samples, monitor mode delay, monitor mode interval
Filter Configuration	IC type: Magnus_2 or Magnus_3, OCRSSI filter targets for the SELECT command, Temperature read configuration settings
Message manager	Warning message manager, sensor value, sensor identification data
Data output	User-directed storage
Programming language	Java jar file and Eclipse project files
Source code	API interface source code, example demo code
Target readers	RFM5108
Compatible smart readers	Aggregated data with RFM5109 + RFM5144 ReaderService™