

Introduction

The Gravity: WiFi IoT Module is a versatile accessory designed for the [Gravity: Science Data Acquisition \(SCI DAQ\) Module](#), providing seamless sensor data transmission to [IoT](#) platforms without the need for programming. With its compact design and support for multiple power options (Type-C or battery), this module enables effortless deployment of IoT sensor nodes in various environments. Operating on the 2.4GHz WiFi frequency, it ensures stable connectivity with features like automatic reconnection during network fluctuations. By integrating smoothly with the Gravity: Science Data Acquisition (SCI DAQ) Module and its broad range of compatible [sensors](#), this module is ideal for smart classrooms, environmental monitoring, smart agriculture, home automation, and research projects.

Easy IoT Node Setup with No Programming

The WiFi IoT Module simplifies the creation of IoT sensor nodes. By connecting the sensors to the Gravity: Science Data Acquisition (SCI DAQ) Module, users can instantly start uploading data to IoT platforms, with no coding required. This makes it highly suitable for educational environments where ease of use is essential.

Quick Sensor Replacement with No Additional Debugging

Sensor upgrades and replacements are streamlined with this WiFi module. No additional debugging is required, allowing sensors to be swapped quickly and efficiently.

Reliable and Stable Connectivity

Equipped with automatic reconnection capabilities, the WiFi IoT Module ensures consistent data transmission even during network fluctuations. This reliability is essential for monitoring remote environments, automating agricultural systems, or maintaining interactive installations.



Figure: How to use the Gravity: WiFi IoT Module and Gravity: Science Data Acquisition (SCI DAQ) Module

Applications

- STEM education
- Interactive learning
- Environmental monitoring
- Smart agriculture
- Home automation
- Research projects

Specification

- Operating Voltage:
 - Type-C: 5V
 - 2Pin PH2.0 Battery Port: 3.5~4.2V
- Operating Current: 30mA
- Output Signal: I2C
- WiFi Frequency: 2.4GHz
- Dimension: 37x32mm

Documents

- [Product wiki](#)
- [Configuration Tutorial](#)

Shipping List

Gravity: WiFi IoT Module for SCI DAQ) Module x 1

Double-headed PH2.0-4P Cable 20cm x 1