

# SIM7000A Arduino NB-IoT Expansion Shield

## Product Overview

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For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot SIM7000A Arduino Narrow Band-Internet of Things (NB-IoT) Expansion Shield supports cellular data network connection of low power consumption device in Wide Area Network (WAN). The NB-IoT operates in an authorized frequency spectrum and can be directly deployed to GSM, UMTS, and LTE without any interference from current networks.

The SIM7000A expansion shield is a wireless communication module designed for Arduino controllers, supporting multi-frequency LTE-FDD communication, dual-frequency GPRS/EDGE communication, and NB-IoT communication. This shield operates from  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  temperature range and features  $7\text{V}_{\text{IN}}$  to  $12\text{V}_{\text{DC}}$  input voltage range. The SIM7000A expansion shield is RoHS compliant and is available in 53.4mm x 68.6mm dimensions. This expansion shield can be applied to IoT applications such as long-distance control, long-distance data uploading, and shared bikes.



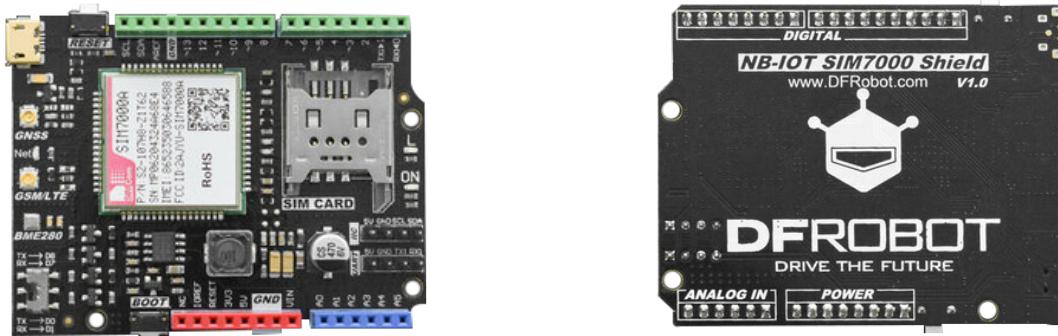
## Features

- $7\text{V}_{\text{IN}}$  to  $12\text{V}_{\text{DC}}$  input voltage range (20V maximum)
- $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  temperature range
- RoHS compliant
- 53.4mm x 68.6mm dimensions
- 46g weight
- Supports SIM card and NB-IoT card

## Applications

- Internet of Things:
  - Long-distance control
  - Long-distance data uploading
  - Shared bikes

## Module Overview



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-sim7000a-shield/>