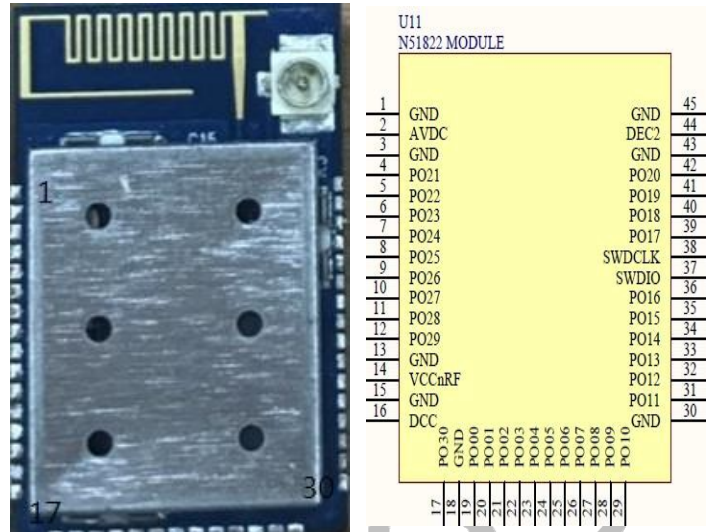


# ESHM1901

**2.4GHz Bluetooth Low  
Energy Module  
with PCB or External  
Antenna**



## Features

- ▲ CPU: nRF51822-QFAC (ARM Cortex™-M0 32 bit processor)
- ▲ Memory: 256KB flash + 32KB RAM memory
- ▲ 250 kbps, 1 Mbps, 2 Mbps supported data rates
- ▲ On-air compatibility with nRF24L series
- ▲ Transparent transmission (Bridged method) easy to use and fast, no Bluetooth protocol stack Development experience can use too
- ▲ The user interface uses a standard UART (TTL) Interface, bidirectional data read, easy to operate Supports serial AT commands, the user can modify the basic parameters like the serial port baud rate, Name, MAC address of the module, etc.
- ▲ Serial data packet length, single data packet can support data length up to 200byte
- ▲ Serial hardware enable control, low-power control applications
- ▲ With the support under the test mode but not connect the serial mode, mutual communication between Test module and bluetooth master devices
- ▲ Module comes with PCB or External Antenna

## Specification

Item	Min.	Typical	Max.	Unit	Condition
Operation Voltage	1.8		3.6	V	AVDC · VCCnRF
Baud Rate		9600	57600	bps	
RF Frequency Range	2379		2496	MHz	
Operating Temperature	-20	25	+65	°C	
Antenna					PCB or External Antenna
Dimensions					21.8mm*13.5mm*2mm

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Note: The end product shall have the words "Contains Transmitter Module FCC ID: 2AS2G-ESHM1901"

Information for the OEM and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

- 1) This device is intended for OEM integrators only.
- 2) Please see the full Grant of Equipment document for other restrictions.

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