

Overview

The Communication module is designed to be mounted on a BLE DIU to provide WiFi connectivity and optional micro SDcard database.

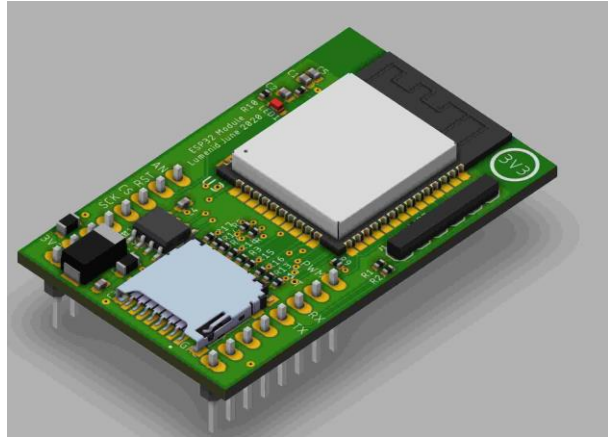
The module is designed to follow the Click module guidelines

Novel design

The module is designed to provide both WiFi gateway capabilities and future database functionality using the on-board micro SD card. Security is provided by the ATECC 608A secure element.

Protocols supported

WiFi, BLE



Simple retrofit

The module is designed to allow a BLE DIU module to function as a gateway for a network of OSDP Modules, once installed the DIU module changes from an OSDP PD to an OSDP CP, and no firmware updates will be required to the DIU Module.

Specification

Feature	Description
CPU	ESP32 WROOM D Xtensa LX6 16MB Flash 520KB RAM 240MHz Dual Core CPU WiFi & BLE 4.2
Secure element	ATECC 608A
WiFi Band	2.4 - 2.5 GHz
Connectors	2 rows 8 way 0.1 inch pitch
Temperature Range	-40 to +70C
Output Power	20dBm
Mechanical	30.5 x 49 mm
Current Consumption	100mA @ 3.3V average 500mA max
Operating Voltage	3-3.6 Volts DC
Warranty	3 years

Pin No.	Function JP1	Function JP2
1	Analogue	ESP32 GPIO0
2	ESP32 Reset	Interrupt out
3	ESP32 Chip Select	ESP32 TX
4	NC	ESP32 RX
5	NC	Host SCL
6	NC	Host SDA
7	3V3 In	
8	0V	0V