FLUO | TECHNOLOGY

Simplifying IoT

Fluo Technology provides a device platforms that enables users to quickly and easily build, connect and control their IoT applications.

We are a young startup company made in UK but with worldwide view.

The **FLUO WIFI** creates a synergy between the world of Things and the world of the Internet, and allows users to interact with it in the way Vmore simplest possible.

We give the opportunity to people as possible to have access to the world of IoT, and to be able to easily create their own IoT application.

- Giving space to their creativity.
- Making friendly technologies
- Provide them with a product design
- Providing them with the latest technology and making it simple.
- Create a beginner open IoT community.
- Allow them to participate in the Industry 4.0 revolution



1 WI-FI + BLUETOOTH LOW ENERGY

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6 POWER JACK 6-20 V

4

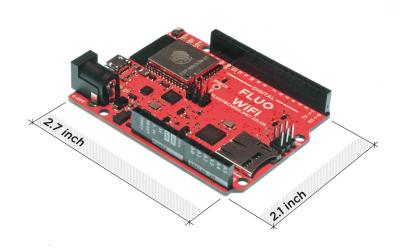
4 CONNECTORS FOR ARDUINIO SHIELD R3

SD CARD CONNECTOR

USB MICRO

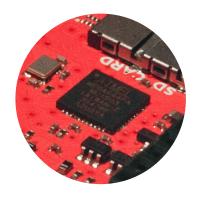
6 MICRO CONTROLLER





IO MICROCONTROLLER

CPU Name	Atmega 644p
Architecture	Atmel AVR 8-bit
Core Clock	16 MHz
Flash Memory	64 KBytes
SRAM	4 KBytes
GPIO - Program I/O	32 (but used only 20)
Interface	SPI-I2C-UART
Operating Voltage	5V



CONNECTIVITY PROCESSOR

(WROOM32 MODULE)

CPU Name	Espressif ESP32
Architecture	dual core system (XTENSA LX6)
Core Clock	160 MHz + 160 MHz
Flash Memory	16 MByte
SRAM	520 KB
Bluetooth	Legacy and Low Energy
WiFi	802.11 class BGN

150.0 mbps data rate with ht 40 (49 mhz channel width, 400 ns guard interval, 1 spatial stream, 64-QASM, 5/6 coding rate)

Hardware accelerated encryption (security data)

AES / SHA2 / Elliptical Curve Cryptography / RSA-4096

FLUO WIFI TECH SPECS

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Connectivity	WiFi 802.11 class BGN/ Bluetooth 4.0 LE
Vire Interface (USB micro (programmming, debugging, wired connection)
ower IN (real)	6-20 V
perating Voltage	5 V
rduino compatible Plin Headers	R3
rduino Shield compatibility 1	100%
ower Consumption	250 mA (estimated)
ize 2	2.1"X2.7"
Veight (0.060 Kg