FireBeetle ESP32-E - IoT Microcontroller with Header - DFRobot DFR0654-F

Minicomputer User Manual

DFR-19903

FireBeetle ESP32-E - IoT Microcontroller with Header - DFRobot DFR0654-F

1. Usage Information and Warnings

1. The device should operate in conditions consistent with its intended use.
2. Avoid improper connection of wires. Incorrect connection may lead to short circuits and damage to the equipment.
3. To ensure proper operation of the equipment, provide it with an appropriate power source according to its specifications.
4. Do not directly touch unprotected parts of the equipment, as this may lead to short circuits or the transfer of electrostatic charges.
5. Operating in high humidity environments can affect the operation of the electronics, leading to damage and errors in sensor readings.

2. Unpacking and Assembly

1. **Unpacking** – checking the completeness of the set and the condition of the elements.
2. **Connection** – plugging in the necessary elements to the minicomputer's connectors.
3. **Operating System** – uploading the operating system to the data carrier.
4. **Startup and Configuration** – configuring the minicomputer settings.

3. Intended Use

The product is intended for use within the parameter ranges specified by the manufacturer and should be used only by qualified personnel trained to operate this product. Before each use, check the product for damage and do not use it if any defects are found. Failure to follow the manufacturer's guidelines may cause potential product damage.

4. Technical Specification

Product code	DFR-19903
EAN13	6959420918751
Weight:	0.028 kg
Dimensions	Width:6.8, Height:2.4, Depth:8 cm
UC - Microcontroller	ESP32
UC - Microcontroller	ESP32-WROOM-32E

UC - Digital pins	10
UC - analog in	5
UC - freq	240 MHz
UC - Flash	4 MB
UC - RAM	520 kB
UC - USB	USB C
UC - Core	Tensilica
UC - Core	Tensilica Xtensa LX6
UC - WiFi	yes
UC - Bluetooth	yes
UC - core	2. Dual Core
UC - Connector	USB typ C
UC - UART	yes
UC - I2C	yes
UC - SPI interface	yes
Voltage to	3.3 V
Voltage from	5.0 V
Niebezpieczne	Component

5. Contact Information

For product-related questions, please contact an authorized service center or the manufacturer:

- **Importer:** Botland. B. Derkacz Sp. K.
- **Address:** Gola 25, 63-640 Bralin
- **Phone Number:** 62 593 10 54
- **Website address:** www.botland.store