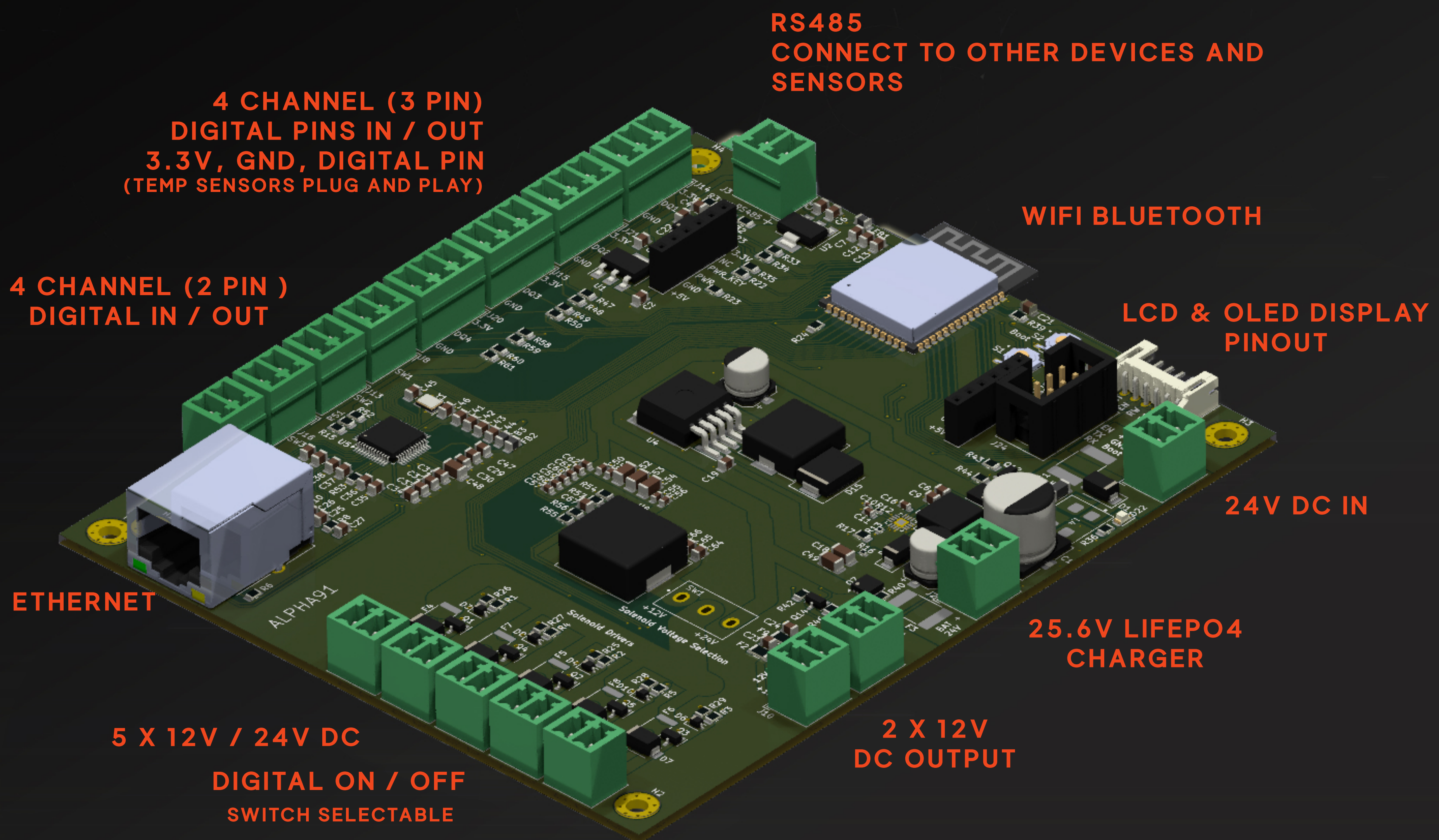# ALPHA91 ™

# 4 CHANNEL MAINBOARD V1.4

This is a 4-channel ESP32-S3-based IoT Automation and Control Board designed for industrial, fire suppression, automation, and IoT applications. It offers connectivity, power management, and modular sensor integration



**RS485**
CONNECT TO OTHER DEVICES AND SENSORS

**4 CHANNEL (3 PIN)**
DIGITAL PINS IN / OUT
3.3V, GND, DIGITAL PIN
(TEMP SENSORS PLUG AND PLAY)

**WIFI BLUETOOTH**

**4 CHANNEL (2 PIN )**
DIGITAL IN / OUT

**LCD & OLED DISPLAY PINOUT**

**24V DC IN**

**ETHERNET**

**25.6V LIFEPO4 CHARGER**

**5 X 12V / 24V DC**
DIGITAL ON / OFF
SWITCH SELECTABLE

**2 X 12V**
DC OUTPUT

RS-485 Serial | Web Server | ETHERNET | WiFi | Bluetooth