ESPuno Pi Zero

New 2025

STEM Technology for the Community

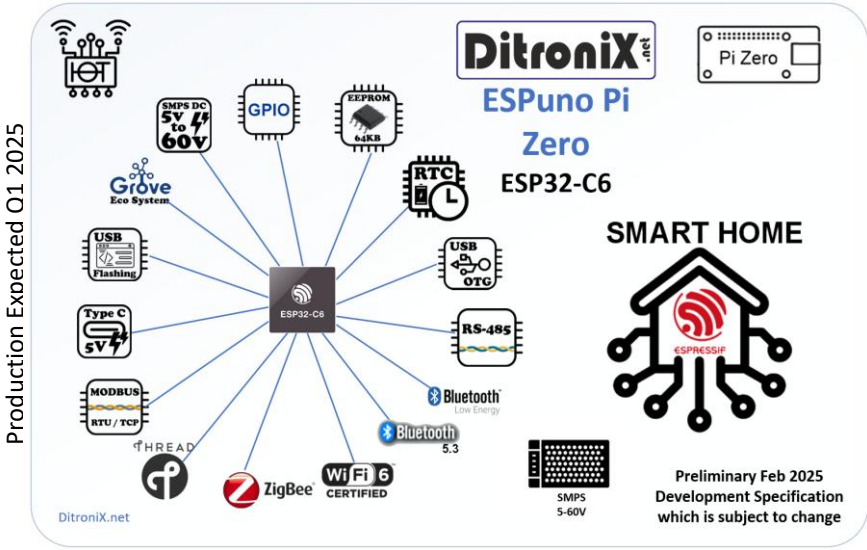
Pre-Release Information Feb 2025

SMPS DC 5v to 60v

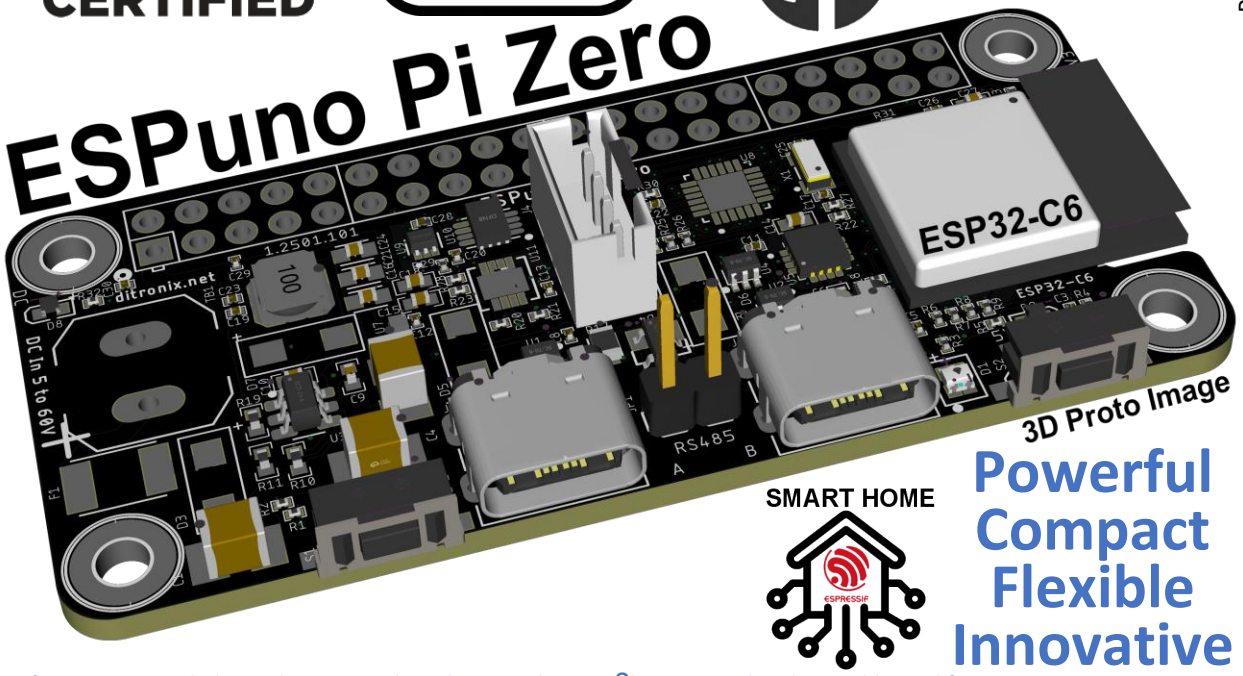
ZigBee THREAD

RS-485

Wi Fi 6 CERTIFIED



Production Expected Q1 2025



3D Proto Image

SMART HOME

Powerful
Compact
Flexible
Innovative

Information provided is preliminary and is subject to change or be improved, or have additional features

ESPuno Pi Zero

Features

ESP32-C6-MINI
Wi-Fi, Bluetooth 5 (BLE) Zigbee and Thread
60V DC Wide range of Input DC Voltages 5V to 60V
Wrapped in a compact mechanical Pi Zero form
Powered – USB C, External 5-60V DC, Battery
RS-485 Industry Standard MODBUS Interface
PCA9671 GPIO Expander
TMP102 Temperature Sensor
Voltage Regulators 3V3 and 5V
GROVE I2C Expansion Interface
EEPROM (64Kbit) for On-board Data Logging and User Parameters
UART Integrated Type C 'ESP32-C6 DEV' Interface
RTC On-Board 32.768 kHz XTAL for Real Time Clock
RGB Status User Programmable LED
Tactile Buttons Reset and PGM / User

ESPuno Pi Zero – C6

Espessif ESP32-C6

WiFi 6, BT 5.3, Zigbee

ESP32-C6-MINI-1-N4 (PCB Antenna)

ESP32-C6-MINI-1U-N4 (U.FL Connector for External Antenna)

Home Automation – IoT
Internet of Things - Smart Devices

ESPuno Pi Zero - Radio

*** Wi-Fi** 6 2.4 GHz
802.11ax | 802.11b/g/n

*** Bluetooth** | LE | 5.3 | Mesh

*** Thread** 1.4 | 802.15.4 | Mesh

*** Zigbee** 3.0 | 802.15.4 | Mesh

Interfaces

* **Raspberry Pi** GPIO

* **ADC** Inputs

* **PWM** Output

* **RS-485** (MODBUS)

* **GROVE** Expansion

* **Type C** C6 and UART

DC Power

*** SMPS High Voltage Input**
5V to 60V DC

*** LDO Regulator**
5V to 3V3

*** USB Type C 5V**

*** 3V3 External**

ditronix.net

ESPuno Pi Zero – ESP32-C6

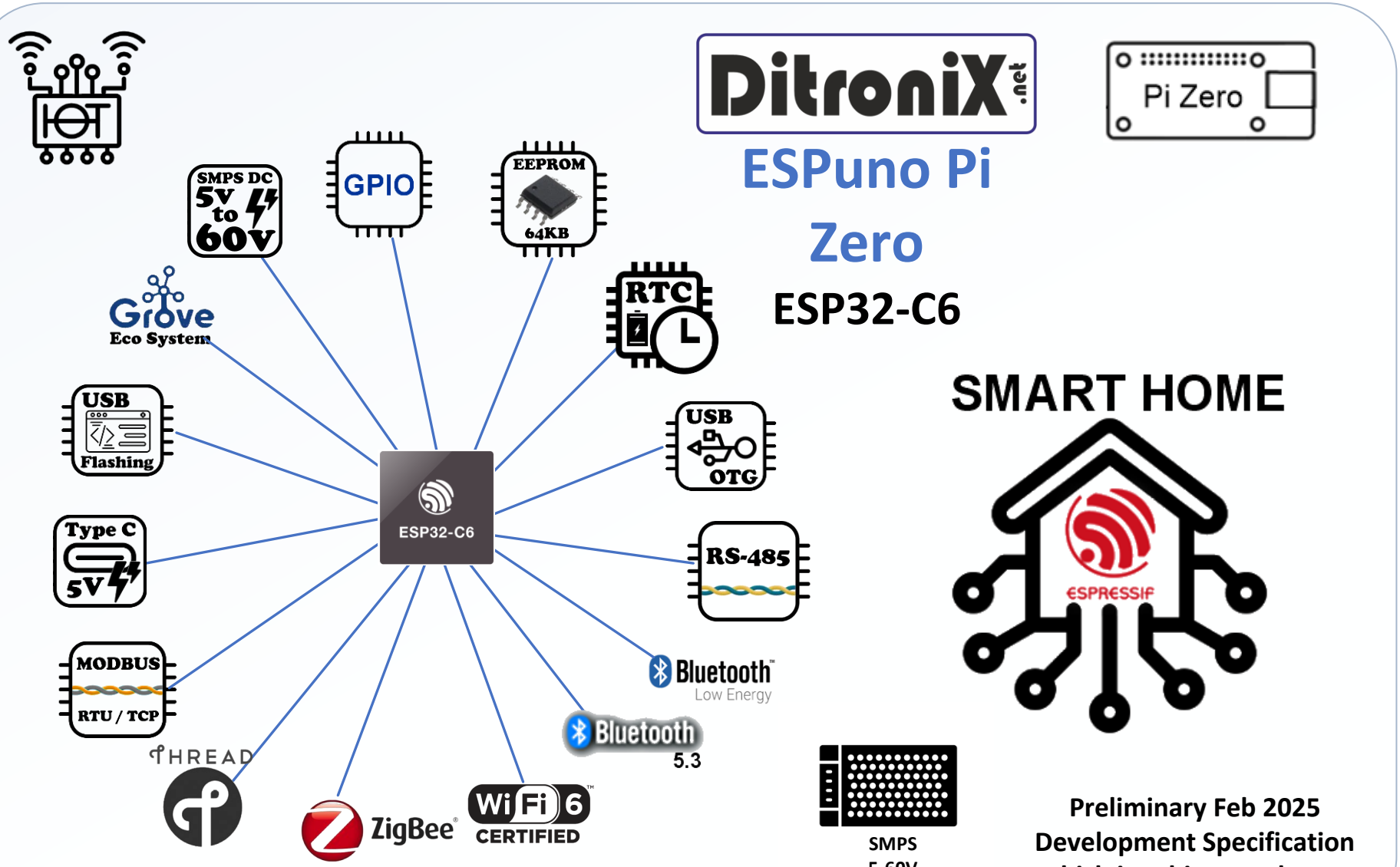
SDK Board
STEM Overview

STEM Science · Technology · Engineering · Math

IoT Smart Home
Energy Automation

DitroniX.net

DXDW250212


DitroniX.net
Pi Zero
ESPuno Pi
Zero
ESP32-C6
SMART HOME
ESPRESSIF
SMPS DC
5V to 60V
GPIO
EEPROM
64KB
RTC
Grove
Eco System
USB
Flashing
USB
OTG
Type C
5V
RS-485
MODBUS
RTU / TCP
Bluetooth
Low Energy
Bluetooth
5.3
THREAD
ZigBee
Wi Fi 6
CERTIFIED
SMPS
5-60V
Preliminary Feb 2025
Development Specification
which is subject to change
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