

# CyberPi Classroom Coding Pack (4 in 1)

**SKU:** P1030155  
**WEIGHT:** 0.46 KGS  
**EAN:** 6928819511842



## Description

CyberPi is designed for teaching and learning AI & IoT and Python with more high-performance yet easy-to-use features. It's small, but features a full-color display, multiple input devices, an independently-developed CyberOS system, much larger storage and an assortment of modules and sensors. Working with mBlock, CyberPi brings Python to classrooms and allows users to teach and learn AI & IoT easily, from the very beginning to advanced. CyberPi is perfect for technological innovations, coding education and other educational purposes, bringing more fun to teaching and learning.

The **CyberPi Classroom Coding kit** contains 4 CyberPi, which makes it ideal to work with a group of students. The CyberPis can be connected to the computers thanks to the 4 type-C USB cables included in the kit, so students can directly work on their Computer Science projects.

## Features

### **Onboard advanced technology Dig deep into AIoT teaching**

1. 1.44" full-color display brings data science into classrooms and makes learning outcomes visible;
2. Onboard microphone and speaker enable basic natural language processing and unveil the secrets behind human-computer interaction;
3. Built-in Wi-Fi module facilitates IoT-based and LAN-based innovations and applications that are closely related to our life;
4. Create motion-controlled games to fuel creativity and fun in classroom.

### **Turn teaching and learning Python into a fun thing**

1. Interaction between hardware and stage enables people to teach or learn Python with more thrills;
2. Teach and learn Python, which is a leap toward AI age;
3. Python made easier for almost any learners and creators.

### **Powerful Expandable Unlimited**

1. Intended for beginners, making Python easier for learners and creators;
2. Greater expansion capabilities make creation unlimited.

**Including 4 CyberPi devices and multiple USB cables, specifically designed for teaching computer science and Python in classrooms**

# Software

## • mBlock 5:

A powerful platform for coding designed for STEAM education

[Download](#)

# Specifications

Input devices - 5-way joystick x1 ; Home button x1 ; Buttons x2

Sensors

1. Microphone, used for recording and speech recognition;
2. 3-axis accelerometer, used for hand gesture recognition;
3. 3-axis gyroscope

Display/Lighting

1. 1.44" 128\*128 IPS display
2. Full-color RGB light x5

Output sounds - High-quality speaker (used for playing recordings and TTS)

Wireless communication

1. Pair devices using Bluetooth;
2. Support Wi-Fi based communication over LAN;
3. Support Wi-Fi based communication over WAN for cloud services;
4. Support OTA updates.

Programming

1. Block-based coding
2. Micro-Python
3. Python

Operating system

1. Independently-developed CyberOS
2. Open-source technologies

Chip - ESP32-WROVER-B

Processor - 240MHZ

Onboard memory (ROM/SRAM)

448KB/520KB

Extended memory (SPI Flash) - 8MB

Extended memory (PSRAM) - 8MB

Communication

1. Wi-Fi
2. Dual-mode Bluetooth

External modules

mBuild interface for connecting 20+ types of electronic modules with no limits on the amount

Pins for extensions - Female Dupont wire pin connectors, including digital, analog, I2C, RT, SPI pins and more

Ports - Type-C ports

## Part list

4xCyberPi

4xQuick Start Guide

4 x Type-C