

# Elecrow Product Catalog

Reliable & Innovative Hardware for  
Global Developers

Shenzhen Elecrow Technology Development Co.,LTD

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[www.elecrow.com](http://www.elecrow.com)

# About US

**Elecrow** was founded in 2014 and has rapidly evolved into a comprehensive electronic technology company integrating R&D, design, production, and sales for global developers. We drive innovation in technology by consistently developing and launching new products.

## Our innovation is focused on our specialties:



### IoT Solutions

Comprehensive solutions featuring LoRaWAN, WiFi, Bluetooth & more for your projects.



### Interactive Displays

A range of HMI and portable displays, plus custom screen solutions, designed for seamless integration.



### STEAM & AI Education

Led by our innovative Crowpi series with AI update, our all in one educational kits offer full compatibility with Raspberry Pi, Arduino, Micro:bit, ESP32, Jetson.



### Meshtastic Ecosystem

We offer a wide range of Meshtastic-compatible products, including trackers, displays, outdoor solar power, and wearable devices.

Serving customers in over 150 countries and regions worldwide, Elecrow has earned global trust and support by offering high-quality and innovative products, tailored solutions, and outstanding customer services.

# Catalogue

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Category 01

# IoT Solutions

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Meshtastic Devices, LoRa Modules & Gateways  
for long-range wireless communication



LoRa Modules



Meshtastic



Gateways

# LoRa Modules & Dev Boards

Complete range of wireless transceiver solutions

SPI US915



## LR1302 Gateway Module

SX1302, 8-channel, US915/EU868

SPI

8-CH



## nRFLR1262 Module

nRF52840 + SX1262 integration

Ultra-Low Power

BLE

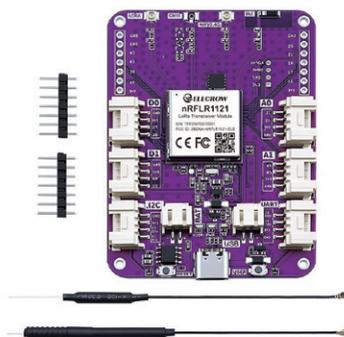


## LR1262 Transceiver

Global frequency, ultra-low power

Global

5uA Sleep



## Node Expansion Boards

nRFLR1121/1110 development boards

nRF52840

GNSS

Features: FCC/CE/RoHS certified, UART/I2C/ADC interfaces, 20dBm TX power, -122.5dBm sensitivity

# ThinkNode M1

Meshtastic LoRa Transceiver with GPS



## nRF52840 + SX1262

Reliable LoRa communication with Meshtastic protocol



## 1.54" EPD Display

E-ink screen, sunlight readable, low power



## GPS Positioning

Real-time location tracking & sharing



## 1200mAh Battery

48+ hours continuous use



Applications: Outdoor communication, hiking, emergency scenarios, off-grid messaging

# ThinkNode M2

Mini Meshtastic Transceiver



## ESP32-S3 Powered

High-performance dual-core processor



## 1.3" OLED Display

Real-time data & device status



## 1000mAh Battery

Compact for long-term outdoor use



## Global Frequency

US915/EU868MHz support



Applications: Portable communication, compact deployments, personal messaging

# ThinkNode M3

GPS Tracker with WiFi & BLE positioning



## GPS + WiFi + BLE

Triple connectivity for versatile positioning



## Indoor & Outdoor

Works seamlessly in any environment



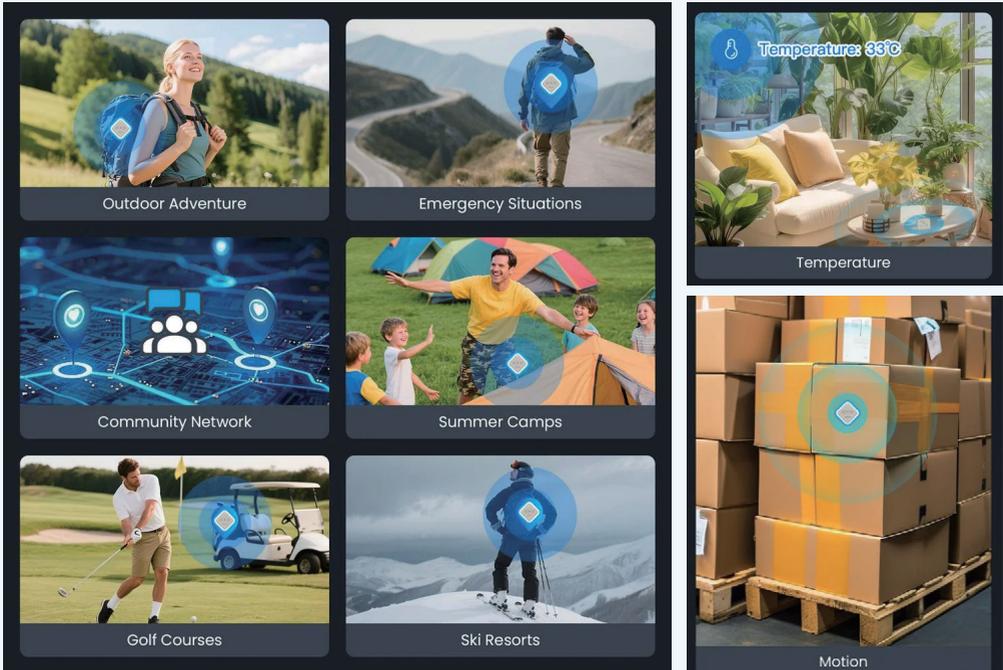
## Meshtastic Compatible

Join the decentralized mesh network



## Real-time Tracking

Live location updates via mesh network



Applications: Asset tracking, personal safety, fleet management, outdoor adventures

# ThinkNode M4

Power Bank + LoRa Tracke Meshtastic



## Power Bank Function

Charge your devices on the go



## nRF52840 Powered

High-performance ARM Cortex-M4



## GPS Positioning

Real-time location sharing via mesh



## Meshtastic/LoRaWAN

Flexible communication protocols



Outdoor Adventure

Summer Camps

Golf Courses

Ski Resorts



Built-in high-sensitivity GPS module



Applications: Outdoor power + communication combo, camping, emergency backup

# ThinkNode M5

Pro Meshtastic Transceiver



## ESP32-S3 Processor

Powerful dual-core with AI acceleration



## 1.54" Display

Large screen for easy reading



## Multi-GNSS

GPS/GLONASS/BeiDou/QZSS support



## 1200mAh Battery

Professional-grade endurance



Applications: Professional outdoor use, surveying, expedition communication

# ThinkNode M6

## Outdoor Solar Power Station



### 6W Solar Panel + MPPT

High-efficiency monocrystalline with smart charging



### All-Weather Operation IP65

Large battery + ultra-low power consumption



### Ready to Use

Pre-installed Meshtastic firmware



### Bluetooth 5.4 + LoRa

Low-power provisioning + full LoRa coverage



Smart City



Intelligent Agriculture



### Support high-precision GPS positioning

Built-in high-sensitivity GPS module, Sharing of location information through the Meshtastic/LoRaWAN network

LoRaWAN



Applications: Off-grid deployment, remote monitoring, solar-powered mesh nodes

# LoRaWAN Gateways

Indoor & outdoor gateway solutions

## ThinkNode G1

Indoor 8-Channel Gateway

SKU: CIL12302G



- ✓ SX1302 baseband chip, 8-channel
- ✓ 5-10km coverage range
- ✓ WiFi/BT/4G connectivity
- ✓ TTN/ChirpStack compatible

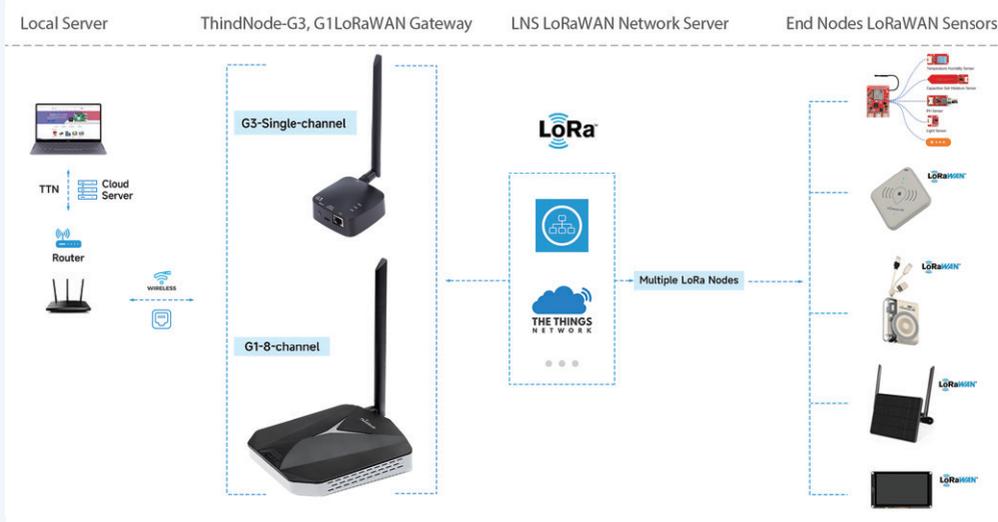
## ThinkNode G3

Single-Channel Gateway

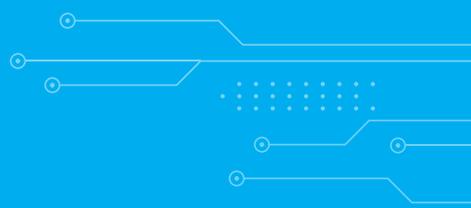
Smart IoT Solutions



- ✓ ESP32-S3 powered
- ✓ Smart home solutions
- ✓ Cost-effective deployment
- ✓ Easy configuration



Also Available: ESP32-based Gateway Module, LR1302 Pi HAT for Raspberry Pi 1/2/3/4/5



## Category 02

# HMI Display Series

ESP32-powered Human-Machine Interface displays  
from basic to advanced AI-integrated solutions



Basic Series



Round Knob Series



Advance Series



E-paper Display

# CrowPanel Basic 2.4" & 2.8"

Compact SPI TFT displays for embedded projects



## ESP32 Module

240MHz, WiFi + Bluetooth 5.0



## Multi-Platform

Arduino/LVGL/PlatformIO/MicroPython



## Resistive Touch

Responsive touch interface



## SPI Interface

Reliable data transmission



**Used for Smart Home**



2.4"-320×240



**Support multiple development environments**



2.8"-320×240

Applications: Small HMI panels, IoT controllers, smart switches

# CrowPanel Basic 3.5" & 4.3"

Medium-sized displays with enhanced resolution

**Higher Resolution**  
3.5" 480×320, 4.3" 480×272

**Integrated ESP32**  
Wireless connectivity built-in

**RGB Interface (4.3")**  
Faster refresh rates

**Acrylic Case Option**  
Professional enclosure available



## CrowPanel 3.5-inch ESP32 HMI Display



-  LX6 Dual-Core processor
-  2.4 GHz WiFi
-  BLE 5
-  Onboard Antenna
-  TFT-LCD display
-  480 X 320 Resolution
-  Resistive Touch
-  3.5 Inch

3.5"-480×320 SPI



**Used for Home Appliance Display**

4.3"-480×272 RGB

Applications: Control panels, data displays, interactive kiosks

# CrowPanel Basic 5" & 7"

Large format displays for complex UI applications

 **Large Screen Size**  
5" & 7" both at 800×480 resolution

 **RGB Interface**  
High-speed data transmission

 **LVGL Support**  
Professional GUI development

 **Complex UI Ready**  
Ideal for multi-screen applications



Applications: Industrial control panels, home automation, digital signage

# CrowPanel Round Knob Displays

1.28" & 2.1" Rotary Touch Screens

**Rotary + Touch**  
Knob rotation & press + capacitive touch

**ESP32-S3**  
240MHz dual-core processor

**Ambient Light**  
Cool lighting effects around the knob

**Low Power Design**  
Extended battery life



## PC Bluetooth Connection for Volume Control

Enables smooth volume adjustment of movies and music via the knob

1.28" - 240×240 IPS

## Used as a PC Secondary Screen

Supports CPU and GPU parameters display for real-time data monitoring



2.1" - 480×480 IPS

Applications: Industrial control panels, home automation, digital signage

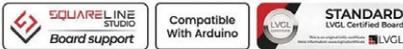
# ESP Terminal Displays

3.5" Professional Terminal Solutions

## Parallel RGB

480×320, ILI9488

Professional Terminal



- ✓ Capacitive touch screen
- ✓ Rich interface options
- ✓ High-speed RGB parallel

## SPI + Camera

320×480, OV2640

Camera-Ready Terminal



- ✓ OV2640 camera module
- ✓ Capacitive touch
- ✓ Vision applications ready

Applications: Terminal applications, data entry systems, camera-based projects, access control

# CrowPanel Advance 2.4" & 2.8"

AI-Powered IPS Touch Screens



## ESP32-S3 AI Power

AI acceleration for edge computing



## Modular Add-ons

LoRa, Thread/Zigbee/Matter, WiFi 6, nRF2401



## IPS Display

320x240, vibrant colors, wide viewing angle



## Multi-Platform

Arduino/LVGL/MicroPython support

### CrowPanel Advance 2.4" ESP32 HMI AI Display



- ESP32-S3-WROOM-1-N16R8
- Support Wi-Fi, BLE
- Capacitive Touch, IPS Panel
- Smart AI Function
- Replaceable Wireless Module Support MeshTastic
- Support Arduino IDE, Espressif IDF, LVGL

### CrowPanel Advance 2.8" ESP32 HMI AI Display



- ESP32-S3-WROOM-1-N16R8
- Support Wi-Fi, BLE
- Capacitive Touch, IPS Panel
- Smart AI Function
- Replaceable Wireless Module Support MeshTastic
- Support Arduino IDE, Espressif IDF, LVGL

Applications: AI edge devices, smart sensors, IoT gateways

# CrowPanel Advance 3.5" & 4.3"

Mid-Size AI Displays with Higher Resolution

## CrowPanel Advance 3.5" ESP32 HMI AI Display



- ESP32-S3-WROOM-1-N16R8
- Support Wi-Fi, BLE
- Capacitive Touch, IPS Panel
- Smart AI Function and RTC
- Support Meshtastic and LoRa Protocol
- Support Arduino IDE, Espressif IDF, LVGL

**Higher Resolution IPS**  
3.5" 480×320, 4.3" 800×480

**AI Capabilities**  
Edge AI processing with ESP32-S3

**Modular Expansion**  
Add wireless modules as needed

## CrowPanel Advance 4.3"-ESP32 HMI AI Display



- ESP32-S3-WROOM-1-N16R8
- Support Wi-Fi, BLE
- IPS Panel, Capacitive Touch
- Smart AI Function and RTC
- Replaceable Wireless Module Support Meshtastic
- Support Arduino IDE, Espressif IDF, LVGL

**Capacitive Touch**  
Responsive multi-touch interface

Applications: Advanced HMI projects, AI-powered dashboards, smart control systems

# CrowPanel Advance 5" & 7"

Large Format AI Displays

**CrowPanel Advance 5.0" ESP32 HMI AI Display**



**STANDARD**  
LVGL Certified Board

- ESP32-S3-WROOM-1-N16R8
- Support Wi-Fi, BLE
- Capacitive Touch, IPS Panel
- Smart AI Function and RTC
- Replaceable Wireless Module Support MeshTastic
- Support Arduino IDE, Espressif IDF, LVGL



## Large IPS Screens

Both at 800×480 resolution



## AI Integration

Professional-grade AI capabilities



## Multiple Wireless Options

LoRa, Matter, WiFi 6, 2.4G add-ons

**CrowPanel Advance 7.0" ESP32 HMI AI Display**



**STANDARD**  
LVGL Certified Board

- ESP32-S3-WROOM-1-N16R8
- Support Wi-Fi, BLE
- Capacitive Touch, IPS Panel
- Smart AI Function and RTC
- Replaceable Wireless Module Support MeshTastic
- Support Arduino IDE, Espressif IDF, LVGL



## Professional Grade

Industrial HMI solutions

Applications: Industrial AI applications, large control panels, data visualization

# CrowPanel ESP-P4 Advanced 5" & 7"

Next-Gen HMI with WiFi 6



## ESP32-P4 Chip

Latest generation  
high-performance SoC



## High Resolution

5" 800×480, 7" 1024×600 IPS



## WiFi 6 Support

Faster speeds, better efficiency



## Wide Compatibility

Arduino/LVGL/MicroPython

### Integrated

## AI Vision Capabilities

The optional 2-megapixel camera supports facial recognition and object tracking.



### Integrated Intelligent AI Functions

Seamless conversations with the smart assistant and easy access to information.

No problem.

OK, the lights are on.

I am here.



Applications: Next-gen HMI, smart home hubs, industrial controllers

# CrowPanel ESP-P4 Advanced 9" & 10.1"

Large Format Professional Displays



## Large Format

9" & 10.1" both at 1024x600



## High Resolution IPS

1024x600, vibrant colors



## WiFi 6 Connectivity

Latest wireless standard

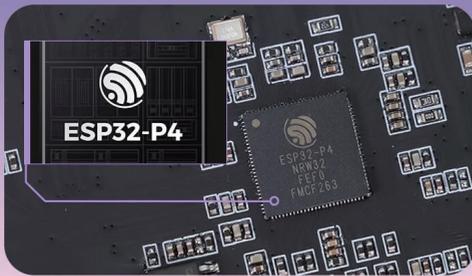


## Professional Industrial

Designed for demanding applications

### ESP32-P4+ESP32-C6

400MHz dual-core | 16MB+32MB memory | Wi-Fi 6 & BT 5.3 | Ready for complex AI



## Integrated Intelligent AI Functions

Seamless conversations with the smart assistant and easy access to information.



Applications: Large-scale display deployments, industrial automation, digital signage

# Crowpanel ESP32 E-Paper HMI Display



## Ultra-low power consumption

It only consumes power when refreshing, extending battery life.



## Power-off display retention

The content will not be lost even when there is no power.



## Easy to program

Compatible with the Arduino IDE



## Multiple sizes

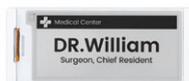
Suitable for a wide range of applications



2.13inch

122\*250

SKU: DIE01021S



2.9inch

128\*296

SKU: DIE0129S



4.2inch

400\*300

SKU: DIE07300S



5.79inch

272\*792

SKU: DIS08792E



Retail Store



Supermarket



Consumer Electronics



Pharmacy



Weather Display



Consumer Electronics

# ESP32 Miner Displays

Cryptocurrency Solo Miner with Display

**1000KH/s Hashrate**  
Efficient solo mining performance

**Built-in WiFi & BLE**  
Standalone mining, no PC needed

**NMMiner Compatible**  
Official software support

**Low Power**  
Energy-efficient design



Available: 2.4" and 2.8" versions, both in 2-pack bundles

# Pi Terminal 7"

Industrial HMI All-in-One Powered by Raspberry Pi CM4



## Raspberry Pi CM4

Industrial-grade compute module



## 7" IPS Display

1024×600, capacitive touch



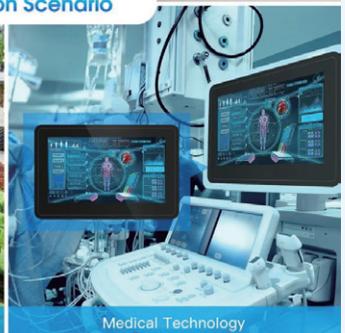
## Rich Interfaces

Multiple I/O options for expansion



## Optional Modules

4G/LoRa/GPS/WiFi/BLE add-ons



Application Scenario

Applications: Industrial control, automation panels, HMI terminals, SCADA systems

# CrowVision 7" & 11.6"

Portable HDMI Touch Monitors for SBCs

## CrowVision 7"

1024×600 IPS

Portable HDMI Monitor



- ✓ HDMI input
- ✓ Capacitive touch
- ✓ Rear fixing for RPi
- ✓ Plug & play

## CrowVision 11.6"

1366×768 HD

Large Portable Display



- ✓ HD resolution
- ✓ Capacitive touch
- ✓ IPS panel
- ✓ Multi-SBC Compatibility

Compatible with: Raspberry Pi, LattePanda, Beaglebone, Jetson Nano, and other SBCs

# CrowView Note

All-in-One Portable Monitor with Keyboard



## Phone-to-Laptop

Transform your device into a laptop



## Full-Featured Type-C

Single cable connectivity



## Wide Compatibility

SBCs, Mini PC, Gaming Consoles



## Two Sizes

14" and 15.6" options



## SBC Projects Builder

Compatible with a range of single-board computers



Raspberry Pi Series  
(0, 4B, 3B, 3B+, Zero)



Banana Pi M5



Jetson Nano Dev Kit  
Jetson Nano 2GB Dev Kit



Orange Pi 4B



LottePanda V1



Beaglebone



Rock Pi

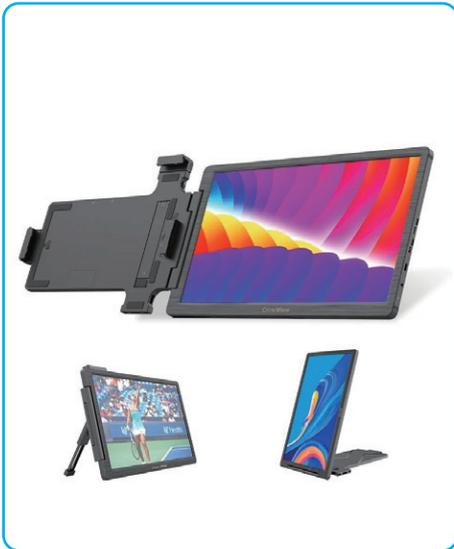


Arduino UNO Q

Compatible with: Smartphones, Raspberry Pi, Jetson Nano, Mini PCs, Game Consoles

# CrowView

Your ultimate laptop screen extender



## Portable Laptop Screen Extender

14" IPS monitor, 1920x1080 resolution, compatible with 13–16.5 inch laptops.



## Ultralight & Portable

Foldable and easy to carry, build your workstation anywhere instantly.



## Easy installation

plug-and-play design, no drivers are required!



## Wide Compatibility

supports multiple devices and operating systems



Business



Working On-the-Go

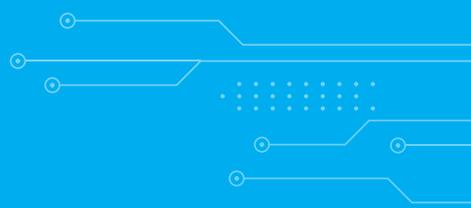


Artistic Creation



Entertainment

Compatible with: Smartphones, Raspberry Pi, Jetson Nano, Mini PCs, Game Consoles



## Category 03

# STEM Education

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Comprehensive learning kits and educational tools  
for the next generation of makers and innovators



All-in-One Kits



CrowPi Series



CrowBot

# All-in-One Starter Kit – ESP32-P4

Common Board Design with 16 Sensors & 19 Lessons



## ESP32 Compatible

Works with Arduino IDE



## 16 Sensor Modules

Integrated on common board



## 19 Lessons

Comprehensive learning path



## Plug & Play

No soldering, beginner-friendly



7" IPS Display  
with capacitive touch



Be Creative with this Kit



16 modules  
in one board



ESP32-P4 Chip

ESP32-P4



Learning Lessons

Dual Speakers



Smart Education

Plug and Play

Logic Training

COC++



2MP  
Pixels  
Camera

Perfect for: Arduino learning, electronics education, beginner makers

# All-in-One Starter Kit – Micro:bit

Common Board Design with 13 Sensors & 20 Lessons



## Micro:bit Compatible

Works with Makecode



## 13 Sensor Modules

Integrated on common board



## 20 Lessons

Comprehensive learning path



## Plug & Play

No soldering, beginner-friendly



### Elecrow All-in-one Starter Kit

The All-in-one Starter Kit for micro:bit is a perfect STEM kit that includes 21 creative courses. Modular programming allows them to easily build and realize their creative projects, stimulate their interest in learning, and improve their hands-on skills.

### 20+ Interesting and Creative Lessons

It comes with 21 easy-to-follow, fun, and inspiring lessons that take you step by step through your knowledge.



### Official Visual Modular Programming

Use the official visual programming to learn programming by dragging visual sliders, starting in a fun and easy way.



Perfect for: Arduino learning, electronics education, beginner makers

# All-in-One Starter Kit – Pico 2

RP2350 Starter Kit with 17 Sensors & 21 Lessons



## Pico 2 RP2350 Chip

Latest Raspberry Pi microcontrolle



## Common Board Design

17 sensors integrated, no soldering



## 21 Creative Tutorials

From basic to advanced projects



## 2.4" TFT Touch Screen

Interactive UI design included



### Projects Built with This Kit

2.4-inch TFT full-color touch screen

20 programmable full-color atmosphere lights

built-in 3 mini-games

Perfect for: Classroom use, student projects, coding education

# All-in-One Starter Kit – Arduino

Common Board Design with 15 Sensors & 21 Lessons



## Arduino Compatible

Works with Arduino IDE



## 15 Sensor Modules

Integrated on common board



## 21 Lessons

Comprehensive learning path



## Plug & Play

No soldering, beginner-friendly

### Projects Built with This Kit



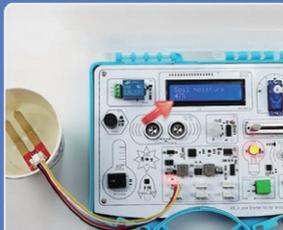
Obstacle Close-Range Alarm



Breathing LED



Servo Angle Control



Plant Watering Reminder System

### 20+ Interesting and Creative Lessons

It comes with 21 easy-to-follow, fun, and inspiring lessons that take you step by step through your knowledge.



### All-in-one Design with Portable Suitcase, Small and Exquisite



Perfect for: Arduino learning, electronics education, beginner makers

# All-in-One Starter Kit – Arduino Nano R4

Common Board Design with 15 Sensors & 21 Lessons



## Arduino Compatible

Works with Arduino IDE



## 15 Sensor Modules

Integrated on common board



## 21 Lessons

Comprehensive learning path



## Plug & Play

No soldering, beginner-friendly



### All-in-one Starter Kit for Arduino Nano R4

### Be Creative with this Kit

- 16 Modules
- Arduino Nano R4
- Programming
- Rich Tutorials
- STEM Education
- Electronic Experiments

### Based on Arduino Software to program



Perfect for: Arduino learning, electronics education, beginner makers

# All-in-One Starter for Arduino UNO R4

Sensor common board design, no need to weld wires, direct use



## Arduino Compatible

Works with Arduino IDE



## 26 Sensor Modules

Integrated on common board



## 26 Lessons

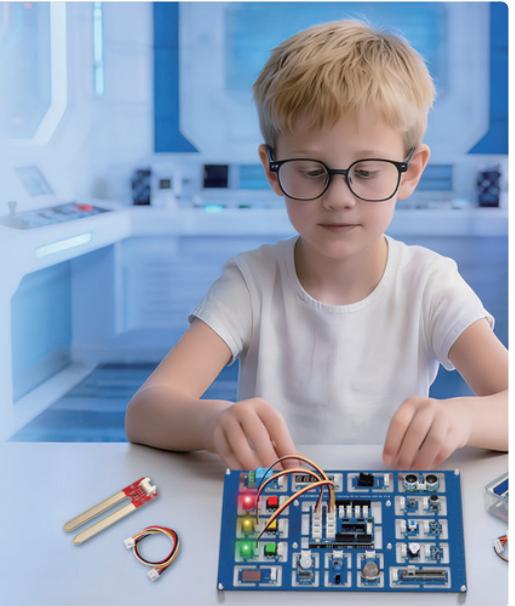
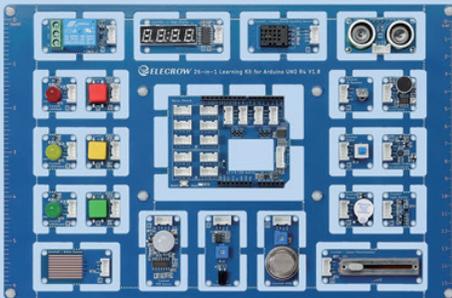
Comprehensive learning path



## Electronic Experiments

No soldering, beginner-friendly

## All-in-one Starter Kit for Arduino UNO R4



Perfect for: Arduino learning, electronics education, beginner makers

# AI Starter Kit – Jetson Orin Nano

Jetson AI Teaching and Application All-in-One Machine



## Jetson Orin Nano

Powerful AI computing platform



## 30 Sensor Modules

Comprehensive sensor collection



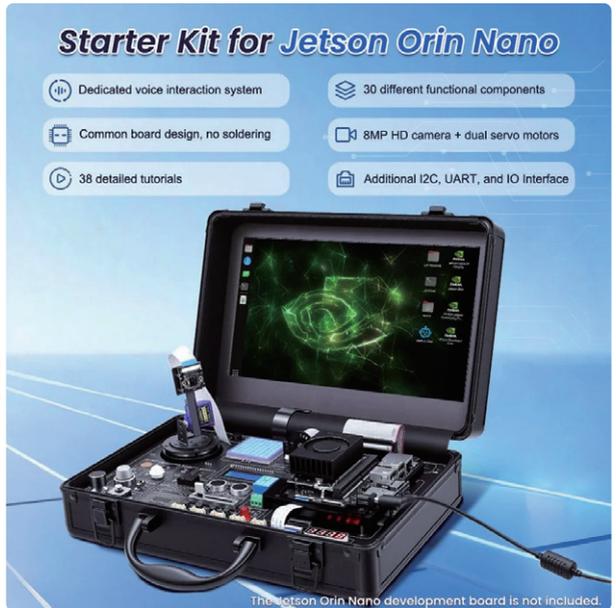
## 39 AI Lessons

Machine learning & deep learning



## Common Board Design

Easy plug-and-play setup



## Starter Kit for Jetson Orin Nano



Dedicated voice interaction system



30 different functional components



Common board design, no soldering



8MP HD camera + dual servo motors



38 detailed tutorials



Additional I2C, UART, and IO Interface

Perfect for: AI development, machine learning education, computer vision projects

# CrowPi

All-in-One Raspberry Pi Educational Platforms



## Raspberry Pi 5 Compatible

Latest RPi support



## Rich Sensors

Built-in sensor collection



## Comprehensive Tutorials

Step-by-step lessons



## A Wealth of Electronic Projects

Enabling you to quickly build project prototypes



Compatible with **Raspberry Pi 4/5**  
and Easy to set up

Note: Raspberry Pi not included



Supporting multiple  
operating systems



Perfect for: Learning environments, student engagement, coding camps

# CrowPi 2

All-in-One Raspberry Pi Laptop & STEM Platform



## Laptop Form Factor

Complete portable computer design



## Wireless Keyboard

Detachable magnetic keyboard



## Integrated Electronics

Sensors, GPIO & components built-in



## STEM Learning

Comprehensive project tutorials



Perfect for: Learning environments, student engagement, coding camps

# CrowPi 3

## AI Learning and Development Station



### Compatible with multiple development boards

Supports Raspberry Pi 5, Arduino Nano, micro:bit, Pico, etc.



### Integrated with multiple sensors and modules

Built-in 30+ commonly used sensors and electronic modules



### AI development capabilities

Supports OpenCV, object/face/QR recognition, pedestrian/vehicle detection, LLM, and deep learning for easy AI development.



### 200+ learning courses

Comprehensive learning resource support



Perfect for: Learning environments, student engagement, coding camps

# CrowBot BOLT

Programmable Smart Robot Car STEAM Kit



## ESP32-Powered

Open-source intelligent programming



## 16 Courses, 3 Languages

Letscode, Arduino, MicroPython



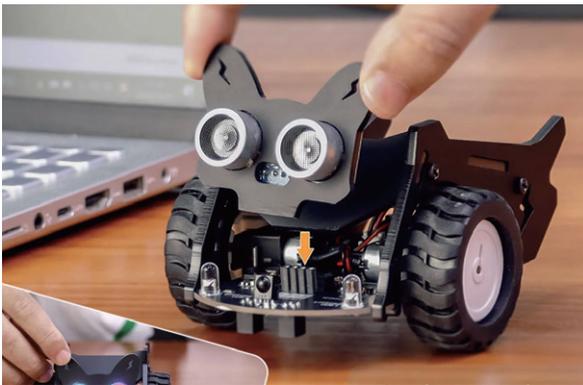
## Crowtail Expandable

Multiple interfaces for modules



## AI Support

GRC AI Robot Control compatible



**Robot Control**

- Voice Commands
- Tilt Control

Ready to use with CrowBot BOLT

A purple PCB (Crowtail) is shown next to a small robot. The PCB has various components, including a microcontroller, sensors, and connectors. The robot is shown from a front-three-quarter view, with its two large eyes and a remote control.

**Programming Support**  
Letscode, Arduino, MicroPython

Screenshots of programming software interfaces for Letscode, Arduino, and MicroPython. The Letscode interface shows a block-based programming environment. The Arduino interface shows a code editor with a pre-compiled sketch. The MicroPython interface shows a code editor with a pre-compiled sketch.

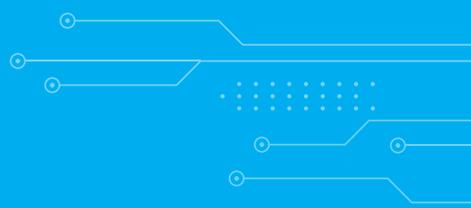
**cute** **creative**

A photograph of the robot with two speech bubbles. One bubble says "cute" and the other says "creative". The robot is shown from a front-three-quarter view, with its two large eyes and a remote control.

**Two remote control methods**  
Can be controlled by infrared remote control and bluetooth handle

A photograph of the robot being controlled by two different remote controls: a standard infrared remote and a joystick handle. The robot is shown from a front-three-quarter view, with its two large eyes and a remote control.

Options: With Infrared Remote, Joystick Handle, or GRC AI Control



## Category 04

# Other Products

Innovative accessories and specialized devices to complement your projects



Portable Monitors



AI Devices



Vision Sensors



Accessories

# Pitower Gen 1 Mini PC Case

Pitower Gen 1 Mini PC Case With 1.3" OLED Screen For Raspberry Pi 5



## Compact Design

Small form factor case



## 1.3" OLED Display

Status information at a glance



## RPi Compatible

Works with Raspberry Pi series



## Jetson Nano Support

Also fits Jetson Nano boards



Perfect for: Compact PC builds, embedded systems, portable projects

# AI Panda Chatbot

Intelligent Voice Assistant & Emotional Companion



## AI-Powered Conversation

Intelligent language model, human-like chat



## Creative Panda Design

Unique appearance, beloved by children



## Voice-Controlled Lighting

Full-color ambient light effects



## Dynamic Expressions

1.28" display shows lively emotions

Functions: Weather, translation, clock, emotional companion with lanyard included

# AI Camera Development Board

ESP32-S3 Vision Sensor Board



## Multi-Algorithm Recognition

Face, image, voice recognition



## Audio Control

Voice input, intercom, DIY commands



## Multi-Platform

UART for Arduino, RPi compatibility



## Wireless & OTA

WiFi data upload, remote control

# ESP32-S3 AI Camera Module

Multiple visual recognition algorithms

- Face Recognition
- Color Recognition
- Label Recognition
- Object Recognition

Requires Internet Connection

The advertisement shows a hand holding the AI camera module against a background of a dog in a room. The board's components, including the camera lens and battery, are clearly visible. A Wi-Fi signal icon is shown next to the dog, indicating internet connectivity for the recognition algorithms.

Features: Built-in offline model, capacitive touch, ready to use when powered on

# Products Featured On

 **Raspberry Pi**  
Official Magazine

tom's**HARDWARE**

tech**radar**

 **CNX SOFTWARE**

Framboise  314

Taste the code

 **PCdemano.com**

embedded

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account to our  
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5. Trial order

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ISO9001



IATF16949



ISO13485



ISO14001



## Hardware Modification

Custom PCB design, enclosure modifications, sensor integration



## Firmware

Bulk firmware flashing and testing available



## OEM Branding

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## Bulk Orders

Volume pricing, logistics support, worldwide shipping

Ready to discuss your project?



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