



Innovative Embedded Solutions for a Smarter Future

FPGA Production Line Introduction



phutruong@ontech.com.vn



(+84) 902 034 191



<https://onekiwi.com.vn/>

<https://onekiwi.ai>

About me



Ngoc Phu Truong

Founder at ONEKIWI TECHNOLOGY | Advanced Embedded System, Product Development

Experience



Founder

ONEKIWI TECHNOLOGY · Full-time

Dec 2021 - Present · 4 yrs 7 mos

Ho Chi Minh City, Vietnam · On-site

Specializing in High-Performance & Secure System on Module (SOM) for Edge Vision AI, IoT, Robotics, and Industrial Automation.

Committed to quality and innovation, OneKiwi is your trusted SOM partner!

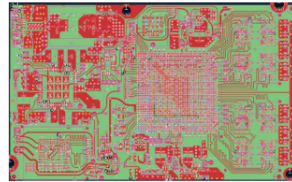
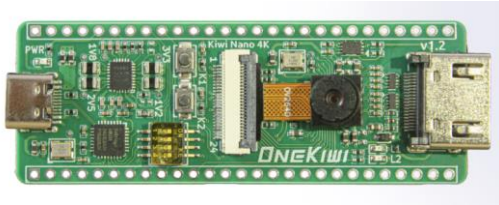
💎 **Go (Programming Language), Project Management and +1 skill**



[LinkedIn Profile](#)

About OneKiwi Company

Our Design Capabilities



GowinSemi
Design Partner



LINUX

ROS

Robot Operating System



Hardware Design

- Multi-layers (eg. 10 layers) sophisticated High-Speed Circuit Design
- Custom Antenna Design for IoT Wireless Products
- Battery Management System & Smart DC-DC Charger
- FPGA Hardware Development & IP Core Design
- EMC Pre-compliance Verification

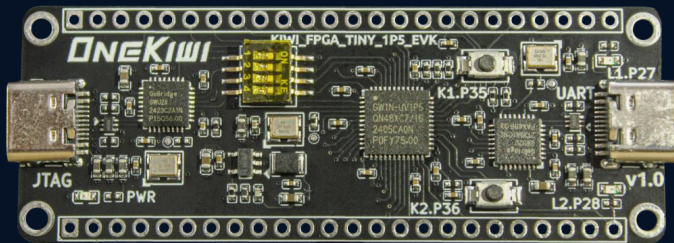
Software Development

- Board Support Package porting for Ubuntu & Yocto Linux OS
- Application Development for Linux OS
- Custom & Optimize Linux Kernel for Embedded Hardware
- Bare-metal and RTOS firmware development
- AI Model Development & Optimization
- Vision AI Framework & ROS2 Robotics Middleware Development

OneKiwi FPGA Boards for Competition



Scalable Gowin-based platforms for students: from basic logic to vision, MCU and multimedia system design



KIWI 1P5

1,584 LUTs

GW1N-UV1P5

Entry-level FPGA board

Best for: digital logic, UART/SPI, simple control, IP verification



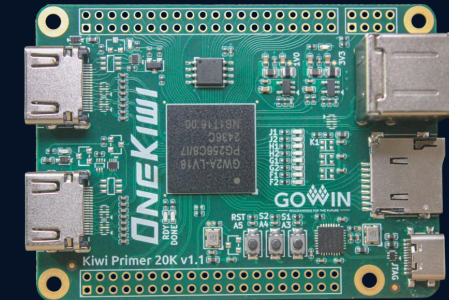
KIWI 4K

4,608 LUTs

GW1NSR-LV4C + Cortex-M3

Embedded MCU Multimedia board

Best for: camera + HDMI demos, MCU + FPGA co-design



KIWI Primer 20K

20,736 LUTs

GW2A-LV18PG256 + DSP + Softcore MCU

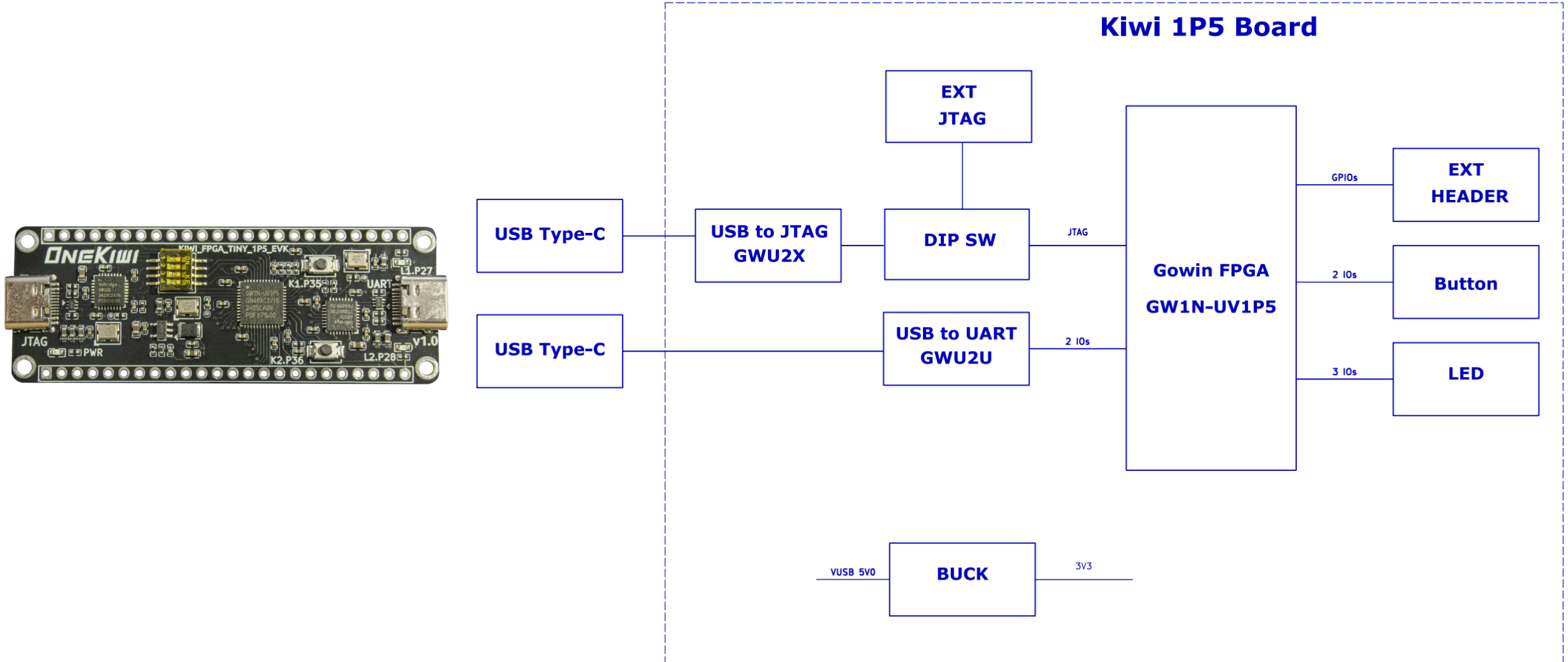
Advanced FPGA platform

Best for: complex IP, multimedia, microSD + dual USB systems

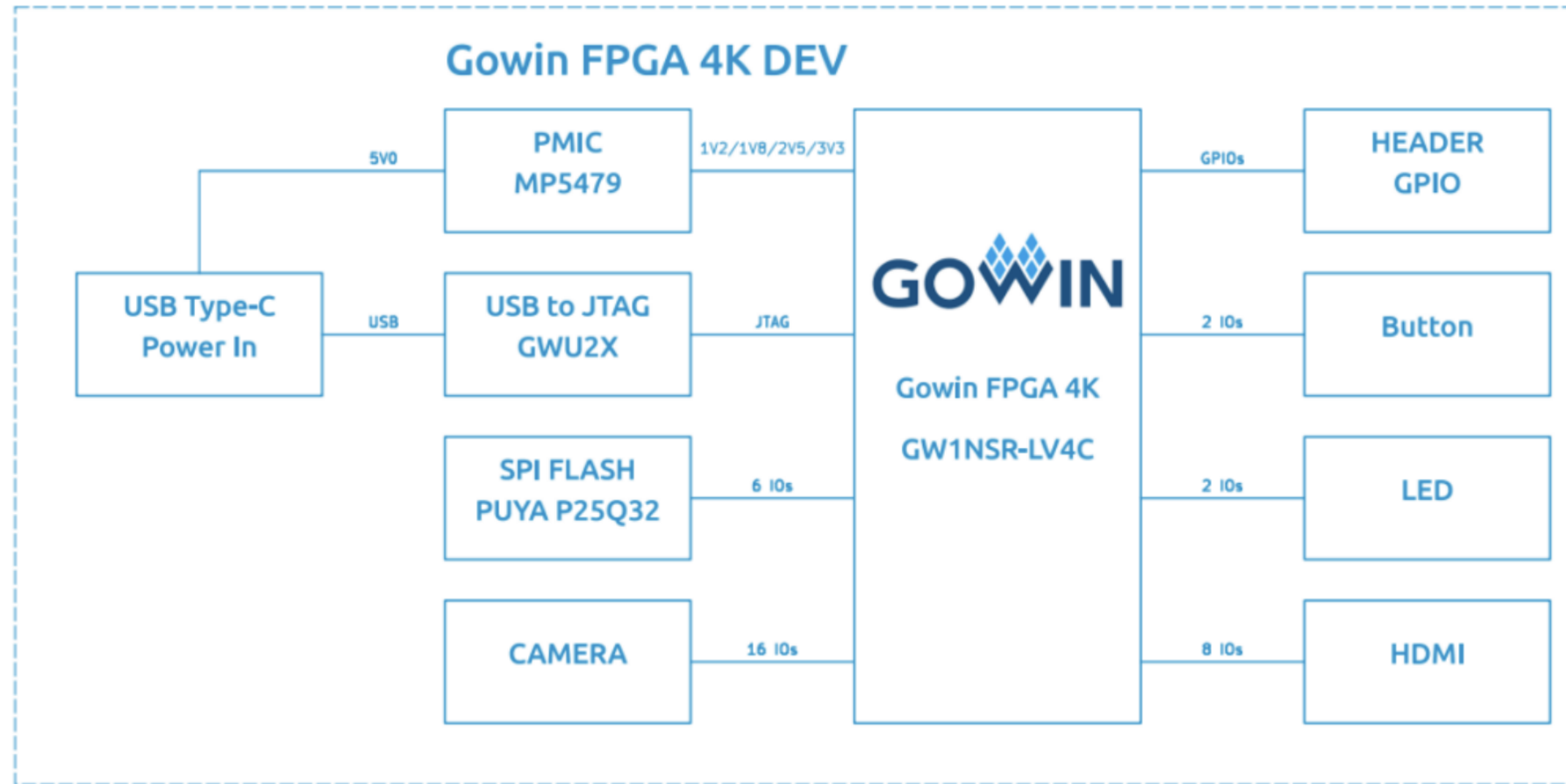
Competition-ready value

Onboard USB-JTAG simplifies setup | Common Gowin workflow | Projects scale across three difficulty levels | Suitable for education, Industrial control and FPGA IP verification

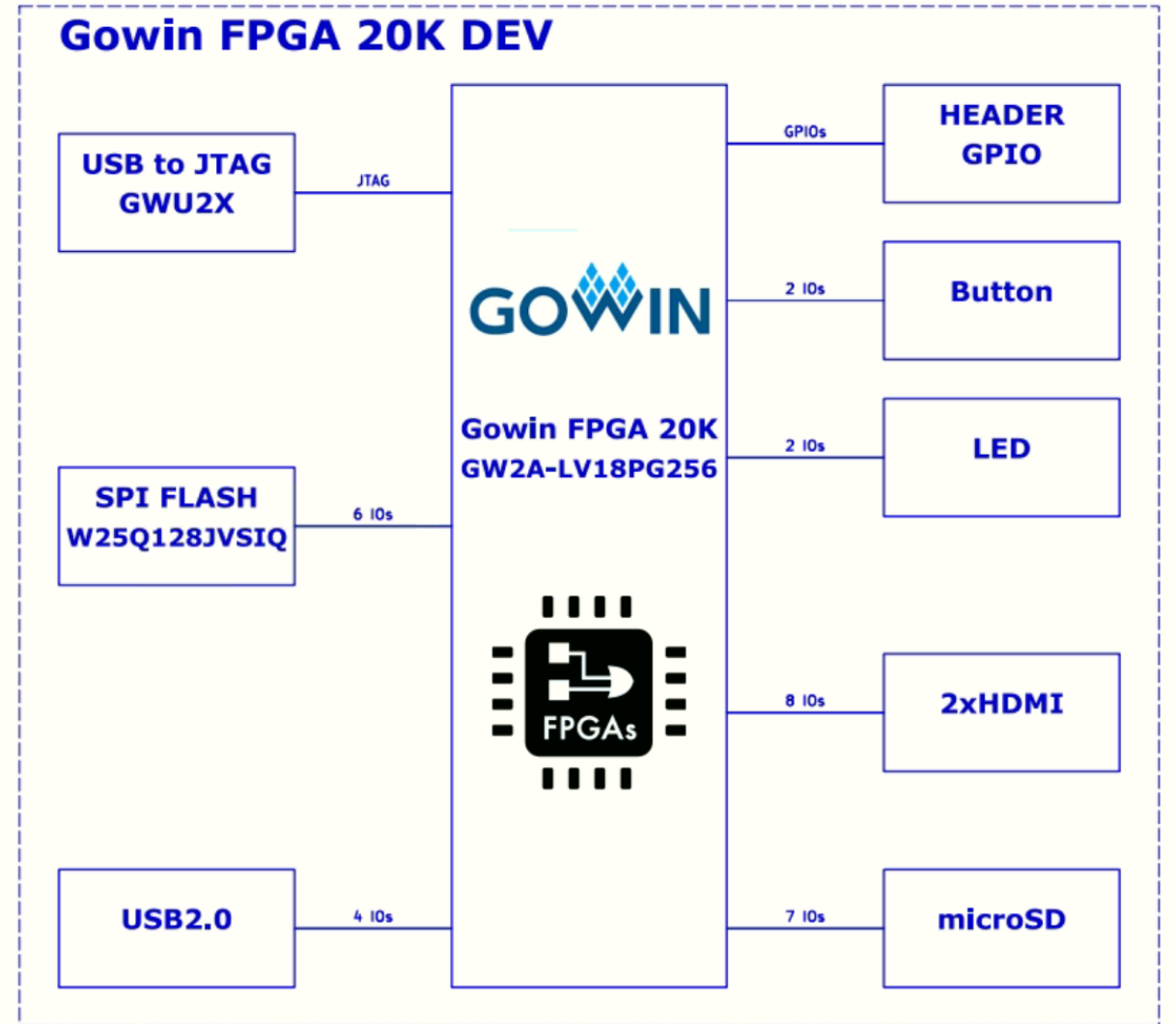
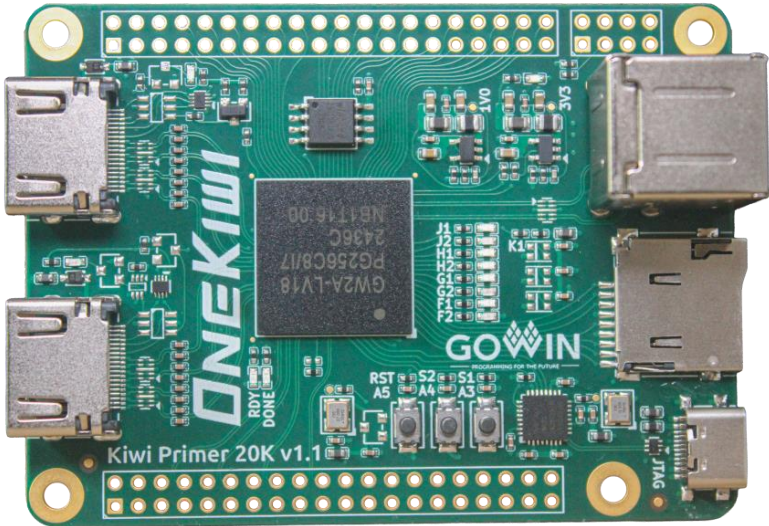
KIWI 1P5 Block Diagram



KIWI 4K Block Diagram



KIWI 20K Block Diagram



THANK YOU

PHU TRUONG
PHUTRUONG@ONTECH.COM.VN
[HTTPS://ONEKIWI.COM.VN/](https://onekiwi.com.vn/)



Join us in revolutionizing the embedded systems market.