

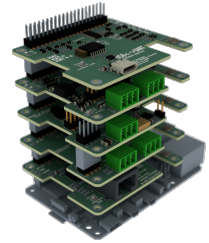
# BE-IIS-HAT++

## Stackable Raspberry Pi HATs for Industrial Interfaces

Designed for evaluation, prototyping, gateways and system integration

**Each HAT++ board can be configured as an instance inside the stack. The system is designed to avoid GPIO conflicts, support reusable device-tree overlays and make industrial interfaces easier to evaluate, integrate and reuse.**

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### Key Features

- Stackable Raspberry Pi HAT ecosystem
- Raspberry Pi HAT / HAT+ compatible concept
- Instance-based board configuration
- Conflict-free GPIO, SPI, I<sup>2</sup>C and IRQ routing
- Automatic overlay and driver setup
- Galvanically isolated industrial interfaces where required
- Open design resources
- Suitable for industrial interface evaluation
- RoHS compliant product
- Quality component suppliers

### Available Interfaces

- 10BASE-T1L Single Pair Ethernet
- 10BASE-T1S Single Pair Ethernet
- CAN FD SIC
- Modbus / RS-485
- UART to USB
- 100BASE-TX Ethernet
- 24 V Industrial Digital I/O (in development)
- Power over SPE companion boards

### Product Description

BE-IIS-HAT++ is a modular portfolio of Raspberry Pi HATs for industrial and commercial electronics.

The concept extends the normal Raspberry Pi HAT idea into a stackable system. Several boards can be combined on one Raspberry Pi while keeping hardware resources, chip-select lines, interrupt routing and software setup manageable.

The boards are not designed as black-box hardware. Schematics, design resources, Linux overlays and installation scripts are provided to support evaluation, prototyping and customer-specific integration.

### Applications

- Industrial interface evaluation
- Raspberry Pi based gateways
- Technology demonstrators
- Laboratory and test-bench setups
- Fieldbus and SPE experiments
- Education and development
- Reference design for own hardware

#### Simple workflow

Install software → plug HAT++ board → select instance  
→ reboot → interface is ready

Supports Raspberry Pi 1 to 5 and Raspberry Pi Zero series.

Available at

**DigiKey**