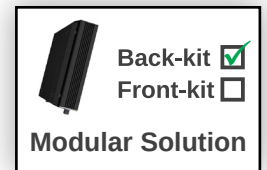


# Modular Rockchip 3576 (large back kit)

## IPCBARK3576



\*) Front- & Back-kit Concept - Preliminary Datasheet



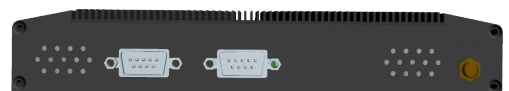
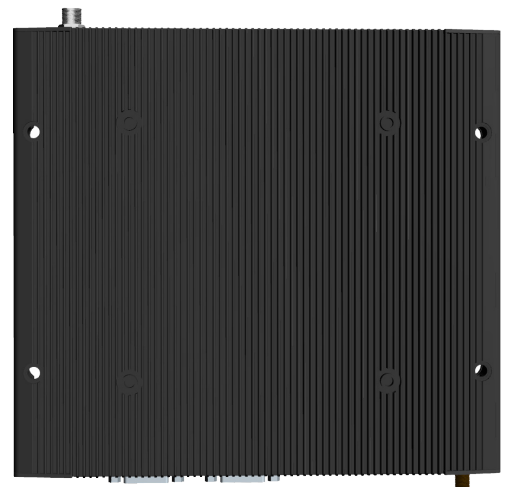
- Rockchip RK3576 mainboard
- Quad-Core Cortex A72 + Quad-Core Cortex A53
- 4GB LPDDR4 RAM Memory
- 32GB eMMC Storage
- Supports Android 14 OS
- Connectors - to mount on front-kit (screwable)
- 9-36V Extended DC-In
- VESA 100 mounting on back
- Integrated LAN & W-LAN module
- 2 year guarantee (24/7 usage)

faytech's Rockchip IPC back-kits have a pre-installed Android OS. All the IPCs have VESA 100 screw patterns on the back for easy mounting.

With this solution being a modular system, the back-kit can easily be connected to any of faytech front-kit models using various connectors and 4 screws. The IPCs are build for 24/7 operation completely fanless with a wide range of available connectors: HDMI, RJ45, USB, WIFI, TF card and SIM card.

The Rockchip RK3568 with **Quad-Core Cortex A72 + Quad-Core Cortex A53**, 4GB RAM memory, 32GB eMMC storage is equipped with Android 14 and suitable for a wide range of applications, while still being cost-effective in the market.

It is the perfect choice for a wide variety of applications, including industrial automation, control panels, POS systems and digital signage, with easily switchable front-kits to ensure longevity.



| Legend / Notes             |      |
|----------------------------|------|
| Applicable to version 1    | (v1) |
| Applicable to version 2    | (v2) |
| Applicable to all Versions | None |



|                           |                       |                      |          |                              |                       |                      |          |
|---------------------------|-----------------------|----------------------|----------|------------------------------|-----------------------|----------------------|----------|
| Product name              |                       |                      |          | Rockchip 3576 large back kit |                       |                      |          |
| Model number / EAN number |                       |                      |          | IPCBARK3576                  |                       |                      |          |
| Global Article Code       | European Article Code | Release date (D/M/Y) | Version* | Global Article Code          | European Article Code | Release date (D/M/Y) | Version* |
| TBD                       | -                     | 01/06/2025           | v1       |                              |                       |                      |          |

| System Specifications |                                                     |
|-----------------------|-----------------------------------------------------|
| CPU                   | RK3576: Quad-Core Cortex A72 + Quad-Core Cortex A53 |
| GPU                   | Mali G52 MC3                                        |
| NPU                   | 6.0Tops                                             |
| Memory                | 4GB - LPDDR4                                        |
| Storage               | 32GB - eMMC                                         |
| Wi-Fi + Bluetooth     | 2.4GHz + 5GHz + Bluetooth                           |
| Ethernet / LAN        | 100M RJ45                                           |
| Supported OS          | Android 14                                          |

| Technical & Graphics Specifications |                                                      |
|-------------------------------------|------------------------------------------------------|
| eDP                                 | VCC 3.3V/5V, max resolution up to 1080@60Hz          |
| LVDS                                | VCC 3.3V/ 5V/ 12V ,max resolution up to 1080@60H     |
| HDMI                                | Support HDMI 2.0 display interface output by 4K@60Hz |
| USB                                 | USB 2.0, USB 3.0 OTG                                 |
| Speaker                             | 2x 8Ω1.5W                                            |
| Audio-Out                           | Audio out x1 (Headphone 3.5mm)                       |
| TF Card / Sim Card                  | 1 / 1                                                |

| Power                    |                                            |
|--------------------------|--------------------------------------------|
| Power Supply             | 100-240V ACDC active switching; 12V DC-Out |
| Working Power (V)        | 9-36V                                      |
| Power Consumption (W)    | TBD                                        |
| Stand-By Consumption (W) | <1                                         |

| IP Rating                                 |
|-------------------------------------------|
| IP40 (if combined with faytech front-kit) |

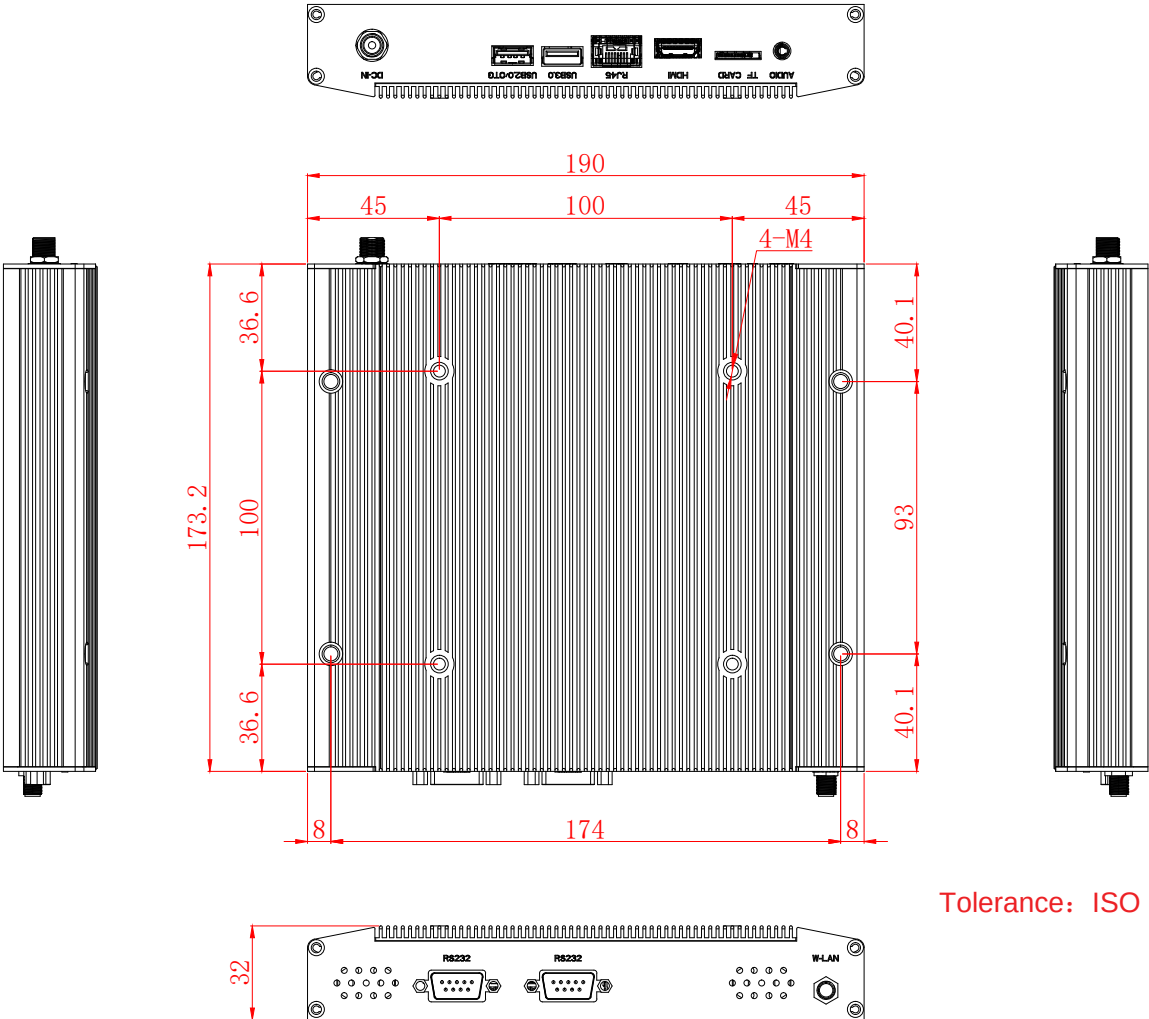
| Environmental & Power & ME |                    |
|----------------------------|--------------------|
| Battery                    | Lithium Battery    |
| Power Requirement          | 9-36V DC-In        |
| Operating Temperature      | -10 ~ +60 °C       |
| Storage Temperature        | -20 ~ +60 °C       |
| Operating Humidity (RH)    | 10% - 90%          |
| Certification              | CE & FCC (Class A) |

| Chassis & Housing      |                              |
|------------------------|------------------------------|
| Net weight (kg)        | ~2.00 est.                   |
| Gross weight (kg)      | ~2.80 est. (incl. cartonage) |
| Housing material       | Aluminum case                |
| Housing (mm) L × W × H | 190.0 × 173.2 × 32.0         |
| Mounting               | VESA 100                     |

| External Connectors        |                              |
|----------------------------|------------------------------|
| 1x 9-36V DC-In (screwable) | 1x HDMI 2.0                  |
| 1x 10/100Mbit RJ45 Port    | 1x USB 3.0                   |
| 1x USB 2.0                 | 1x Audio out                 |
| 2x COM DSUB (RS232)        | 1x Wi-Fi Antenna (screwable) |

| Connector - front-kit assembly                                                                |
|-----------------------------------------------------------------------------------------------|
| Various pin connectors with converter for front- / back-kit assembly (see separate pdf sheet) |

| Included in the Delivery         |  |
|----------------------------------|--|
| Power Supply (see Power section) |  |
| W-LAN Antenna (RP-SMA female)    |  |
| Short Installation Manual        |  |



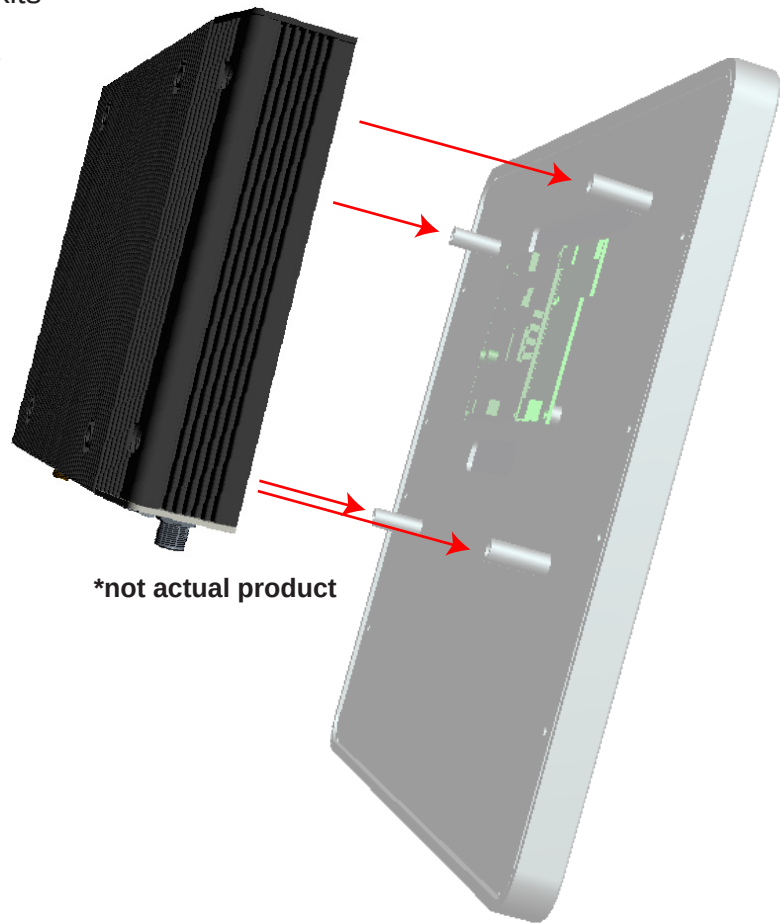
## **Front- & Back-kit concept:**

Pre-assembled (together) or separately packaged available

Easily replace or switch back- or front-kits

Connected through various connectors

Assembly to be done by a professional



\*not actual product

## **Update Notes:**

### **Version:**

**v1**

-

### **Changes:**

First version

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