DFR1218 Quick Guide

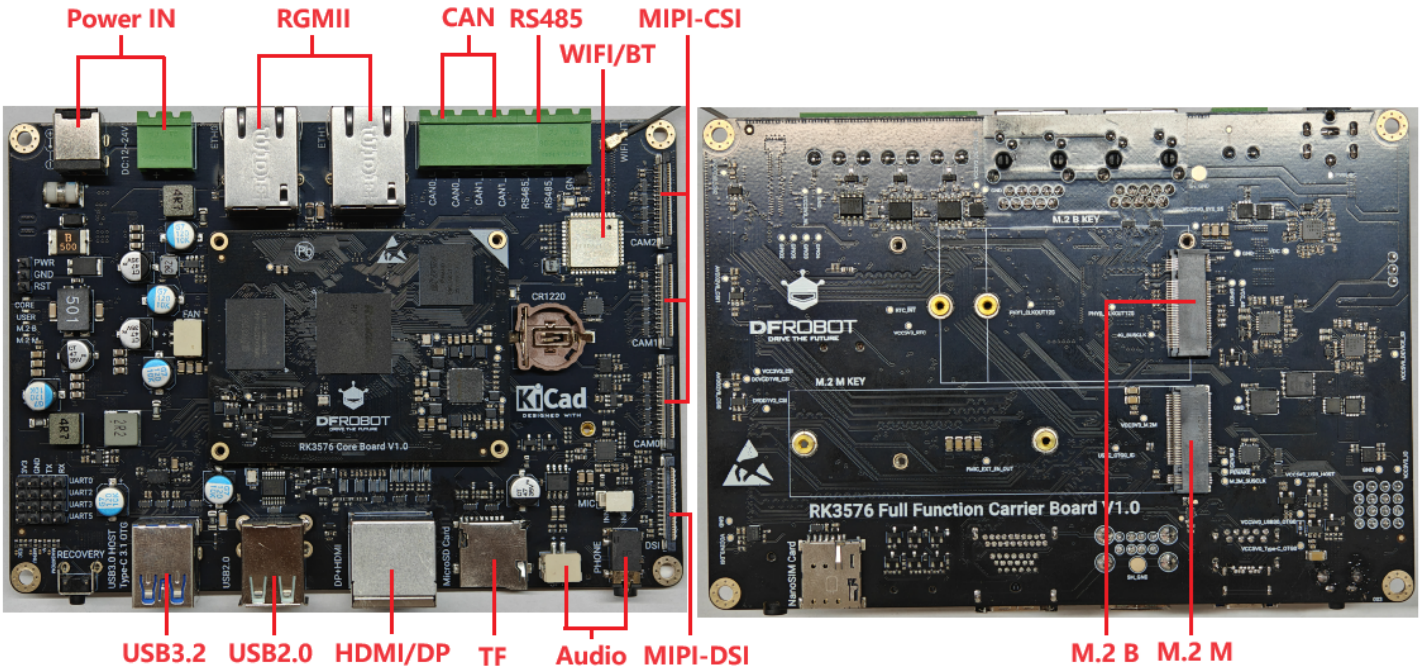
Product Introduction

The DFRobot RK3576 evaluation board delivers robust performance. Powered by the RK3576 processor, it integrates a multi-core heterogeneous CPU, a 6TOPS NPU, and 4K high-frame encoding/decoding capabilities, making it suitable for diverse scenarios including IoT, AI, and professional audio-visual applications. Developer-friendly, it comes with over 20 built-in demos, enabling functional verification in just 30 minutes. Boasting abundant hardware interfaces that support the connection of various peripherals, it significantly lowers R&D barriers and accelerates product launch.

Product Parameters

Category	Specifications
Power Supply	VIN Input: 12~24V
Processor	RK3576
RAM	8GB (Other capacities optional)
eMMC	64GB (Other capacities optional)
Video Output	1 * HDMI, 1 * DP, 1 * MIPI-DSI
Video Input	3 * MIPI-CSI
PCIE	1 * M.2 M Key
Communication Interfaces	2 * RGMII; WiFi/Bluetooth: 1 * M.2 B Key
USB	1 * USB3.2 OTG, 1 * USB3.2 HOST, 2 * USB2.0 HOST
Audio	1 * MIC (Microphone Interface), 1 * Power Amplifier (2W), 1 * Headphone Jack
Other Interfaces	2 * CAN FD, 1 * RS485, 4 * UART

Function Indication



FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.