

Summary

1.1 Overview

HLP5602-GWM/HLP5602-GWM.01 is an intelligent module with low cost and high reliability which is mainly applied to intelligent home appliances. Module integrates quad-core CPU with operating frequency up to 1.3GHz, and also includes G31-2EE GPU with operating frequency up to 400MHz; Smart board built-in 512MB DDR4, 512MB NAND Flash; Up to 1920×1080 resolution; Built in ISP that supports 5M MIPI-CSI camera; It can do speech recognition (debugging process), run Linux. The module has rich peripheral interfaces, and supports IEEE 802.11a /b/g/n/ac and BT 5.0 wireless interconnection technology.

1.2 Features

- Quad-core ARM A35 operating up to 1.3GHz;
- GPU G31-2EE operating up to 400MHz;
- 512MB DDR3, 512MB nand Flash;
- Support 1920*1080 resolution screen, MIPI-DSI;
- Support 8M camera, MIPI-CSI;
- 5×UART, 2×SPI, 3×I2C, 1×I2S, 8×MIC, 2×LINEOUT, 8×PWM, 2×USB(Partial interface reuse);
- 802.11 a/b/g/n/ac and BT 5.0;
- Support WiFi / BT common internal PCB antenna;
- Working temperature : 0~50°C ;

1.3 Application

- Smart home appliances (e.g: Air conditioning, washing machine, refrigerator, oven, et)
- Intelligent Gateway
- Smart speaker



We will retain control over the final installation of the modular such that compliance of the end product is assured. If any hardware modify or RF control software modify will be made by host manufacturer, C2PC or new certificate should be apply to get approval, if those change and modification made by host manufacturer not expressly approved by the party responsible for compliance, then it is illegal.

The host device must be labeled to display the FCC ID of the module "Contains FCC ID: 2A9F9HLP5602WM"

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Any company of the host device which install the modular with modular approval should perform the test of radiated & conducted emission and spurious emission, etc. according to FCC part 15C : 15.407,15.247 and 15.209 & 15.207 ,15B Class B requirement, Only if the test result comply with FCC part 15C : 15.407,15.247 and 15.209 & 15.207 ,15B Class B requirement, then the host can be sold legally.

FCC STATEMENT

1. 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Radiation Exposure Statement

The modular can be installed or integrated in mobile or fix devices . This modular cannot be installed in any portable device if without further certification such as C2PC with SAR. This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be



installed and operated with a minimum distance of 20 cm between the radiator and user body.

Operations in the 5.15-5.25GHz band are restricted to indoor use only.