



AI face recognition module 3D binocular camera live detection and discrimination serial communication

Description:

HLK-TX510 is a module developed based on artificial intelligence chip TX510, which has AI computing power 1.2T@8bit / 9.6T@binary , supports mixed precision, can quickly detect faces, supports 3D live detection, 3D face recognition, infrared live detection, visible Optical live detection can resist two-dimensional attacks such as photos and videos, and three-dimensional attacks such as masks. It has a high recognition success rate and can be widely used. It is applied to smart door lock, smart access control, financial payment and other industries.

Features:

- 5V/1A power input
- Simple module and small volume
- RISC32 core, CK804 as the main controller and CK805 as the auxiliary controller
- Support the main frequency up to 400Mhz
- Fast startup and comparison

- Support 1000 face databases, and the comparison time is less than 1 second
- Infrared fill light + infrared sensor, supporting dark environment comparison

Specifications:

- Wireless parameters:
 - Package: SMT
 - CPU: TX510
 - Neural network: 1TOPS AI
 - RAM: 64M Byte
 - FLASH: 16M
 - Operation system: RTOS
- Hardware parameters:
 - Starting time: <1000mS
 - Recognition time: <600mS
 - Face database: 1000
 - Interfaces: UART, USB, MIPI.12C
 - Working voltage: 5V
- Serial port parameters:
 - Baud rate: 115200
 - Working temperature: <90%

Application:

- Security system
- Attendance system