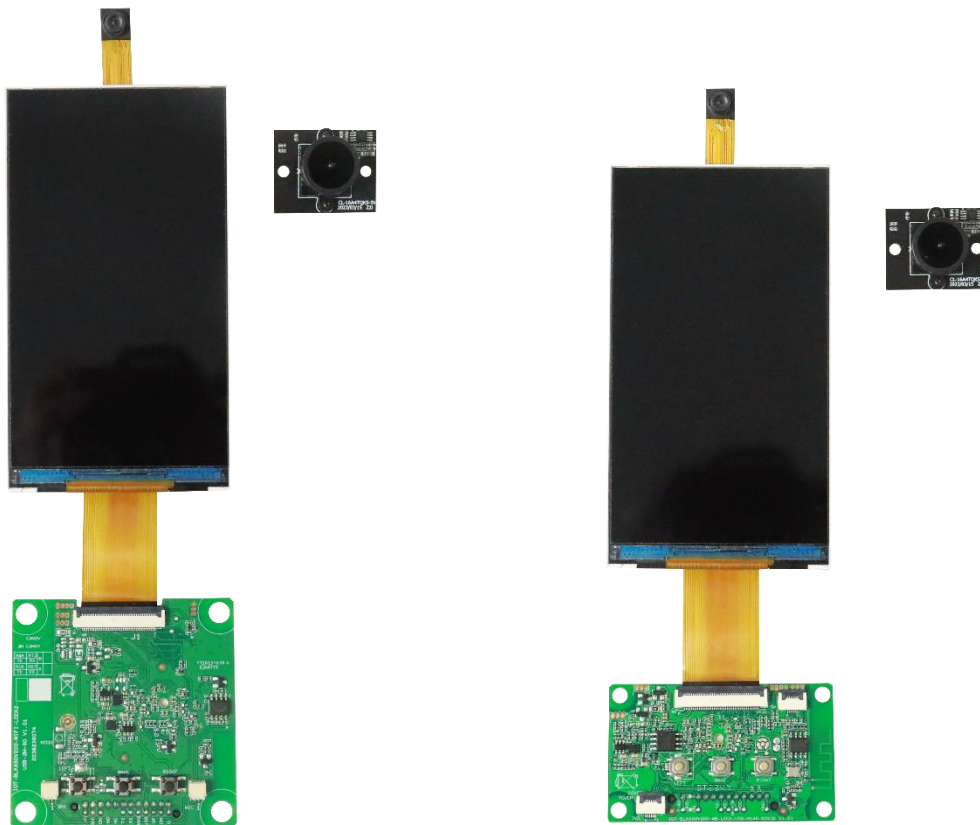


IOTG-LKH-X2-L2 Module Specification

Document Version : 20231212



Introduction

IOTG-LKH-X2-L2 is a 2MP dual-lens USB smart before and after video door lock module developed by our company, which supports two-way video intercom and is mainly used in intelligent video door locks.

Main Features



Two-way video intercom



Dual-lens



Bluetooth network configuration



Visual screen



Remote unlocking



Video Talk



Remote wake-up



Alarm push



Cloud phone



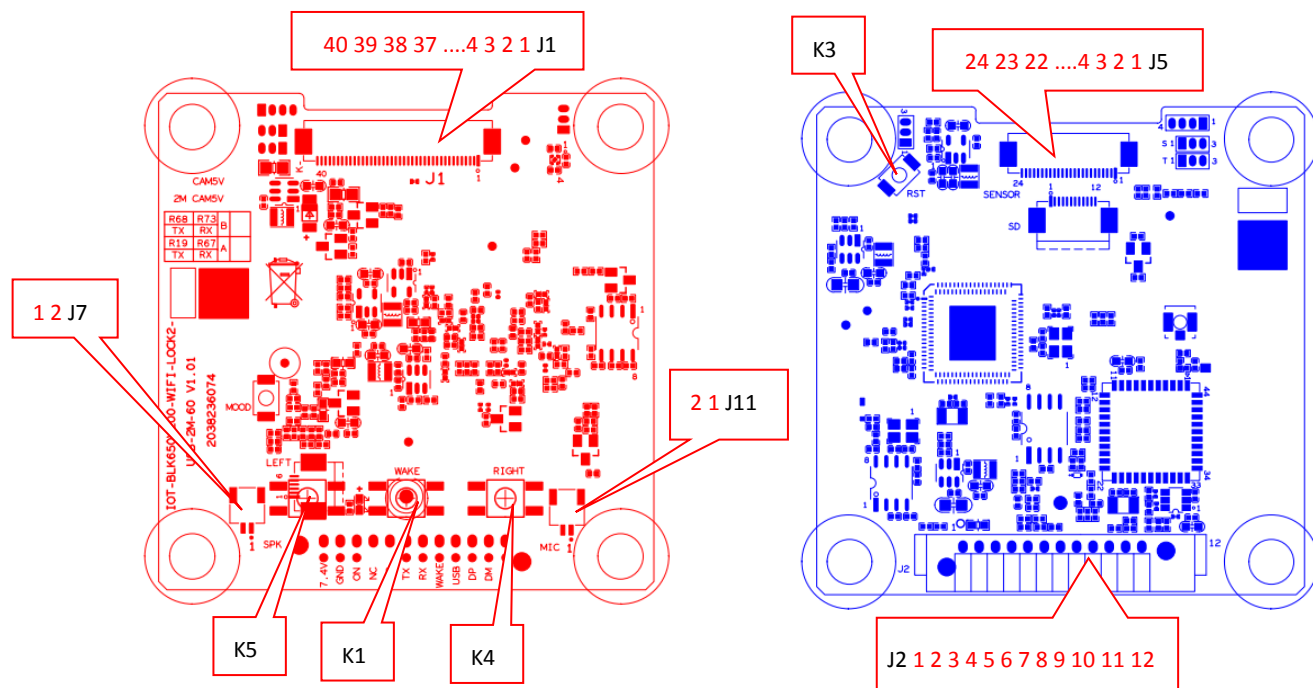
Cloud storage

1. Product Parameters

Model	IOTG-LKH-X2-L2
System Structure	Dual-core 32-bit DSP, pure hard compression, watchdog
Image Output	Main stream: 1920*1080; sub-stream: 800*480
Video Compression	H.265AI
Lens	Lens1 : USB lens module 2.5mm-F2.0, height 12.5±0.5mm, viewing angle: diagonal 155° Lens2 : mipi lens module , height 5.4±0.2mm, viewing angle: diagonal 120°
LCD Screen	4"/4.5"/5"
Audio Interface	1*input, support microphone input (MIC: selection range -28dB~-36dB, -33dB specification recommended);1*output, support speaker output playback (speaker: 8Ω 1W specification recommended)
Antenna interface	On-board antenna or external antenna
Network configuration mode	Bluetooth/QR code
keys	1* Left buttons; 1* Wake button; 1* Right buttons
Remote wake-up	support
Video intercom	support
Push messages	Door opening message, doorbell call, stay alarm, anti-prying alarm, trial and error alarm,
Video recording	Cloud storage
Reliability	Comprehensive lightning protection, in line with national international standards; 3*24 hours high temperature test stable and reliable
Functions	Support remote monitoring of mobile phone client; Support cloud phone; Support alarm message push; Support MJPEG capture
Mobile Monitoring	Support cell phone monitoring (iOS, Android)
Power Supply	DC6.6V-8.4V
Dimension	60mm*60mm+27mm*22mm/60mm*36mm+27mm*22mm

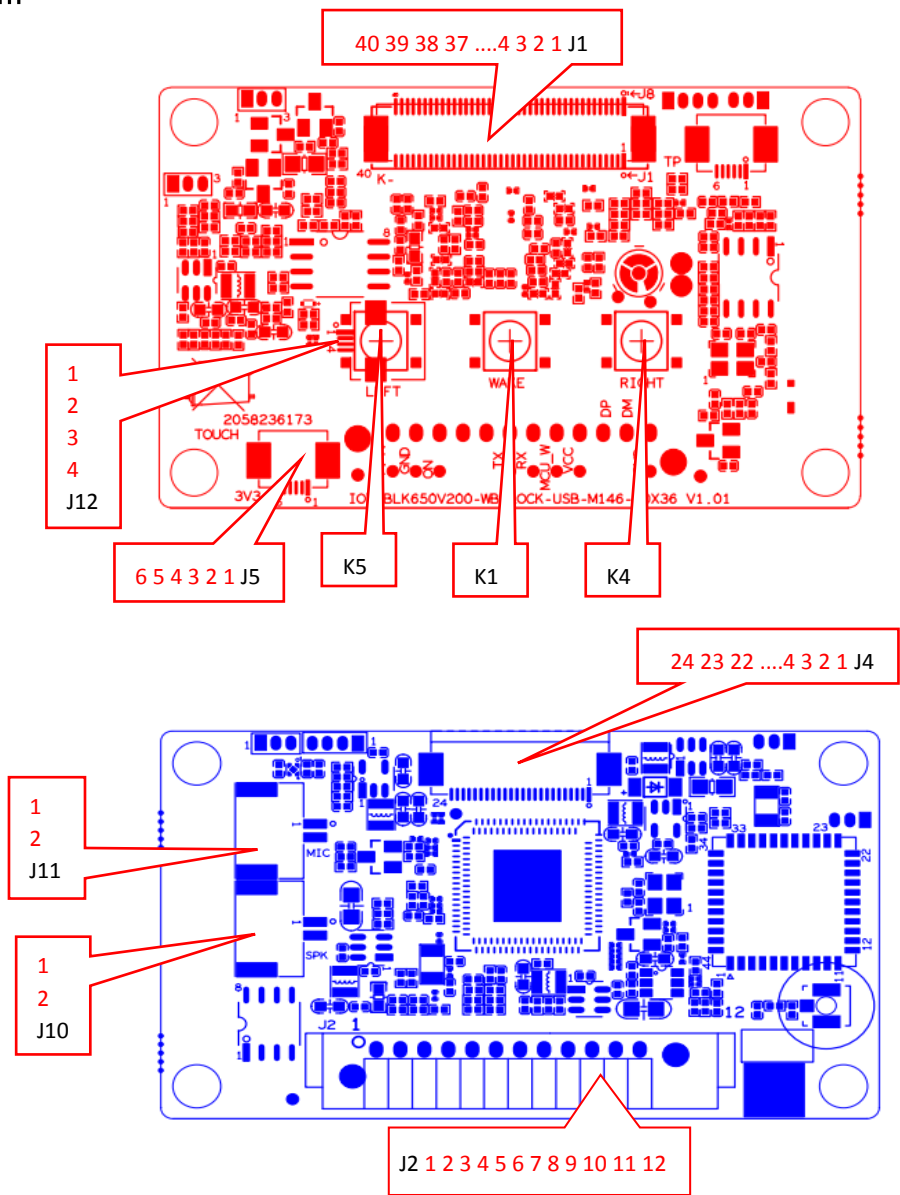
2. Interface Description

60*60mm:



Marking	Silk Screen Number	Pin Number	Pin Definition
J1		LCD interface	Docking screens
J5		MIPI lens mount	Docking SC1346 lens plate
J7	1	Horn-	Pick up the horn
	2	Horn +	
J11	1	Microphone-	Pick up the microphone
	2	Microphone +	
J2	1	GND	Butt lock plate, universal line sequence
	2	DM signal	
	3	DP signal	
	4	USB power supply 5V	
	5	MCU wake-up signal	
	6	The serial port receives the signal	
	7	The serial port sends a signal	
	8	NC	
	9	NC	
	10	Doorbell signal	
	11	GND	
	12	Battery power 7.4V	
K5		Left button signal	Left button
K1		Wake up signal	Wake button
K4		Right button signal	Right button
K3		Master control reset signal	Main control reset button

60*36mm



Marking	Silk Screen Number	Pin Number	Pin Definition
J1		LCD interface	Docking screens
J4		MIPI lens mount	Docking SC1346 lens plate
J10	1	Horn +	Pick up the horn
	2	Horn-	
J11	1	Microphone +	Pick up the microphone
	2	Microphone-	
J2	1	GND	Butt lock plate, universal line sequence
	2	DM signal	
	3	DP signal	
	4	USB power supply 5V	
	5	MCU wake-up signal	
	6	The serial port receives the signal	
	7	The serial port sends a signal	

	8	NC	
	9	NC	
	10	Doorbell signal	
	11	GND	
	12	Battery power 7.4V	
K5		Left button signal	Left button
K1		Wake up signal	Wake button
K4		Right button signal	Right button
J5	1	Touch the chip power supply	Reserved three-button touch interface
	2	Touch the chip power supply	
	3	Touch signals	
	4	Touch signals	
	5	Touch signals	
	6	earth	
J12	1	Touch signals	Reserved single-button touch interface
	2	Touch signals	
	3	Touch signals	
	4	Touch signals	

3. Working Conditions

Parameter	Description	Min	Max	Unit
Ta	Working temperature	-10	60	°C
VCC	Power supply voltage	6.6	8.4	V
VOL	I/O low-level output	0	0.7	V
VOH	I/O high-level output	2.5	3.3	V