

Willkommen bei o-führend

O-lebend ist es, Ihr One-Stop-Lösungspartner in der EMS-Lieferkette zu sein, einschließlich PCB-Design, PCB-Fabrikations- und PCB-Baugruppe, wir bieten einigen der fortschrittlichsten PCB-Technologie, einschließlich HDI-Leiterplatten, mehrschichtige Leiterplatten, steif-flexible PCBs. Wir können Unterstützung vom schnellen Turn-Prototyp bis zur mittleren & Massenproduktion.

Im Allgemeinen sind unsere globalen Kunden sehr beeindruckt von unseren Diensten: Schnelle Reaktion, wettbewerbsfähiger Preise und Qualitätszusagen. Provovieren mehr wertvoller technischer Service und allgemeine Lösung ist der Weg, der nach vorne führt.

Wenn Sie auf die Zukunft suchen, konzentriert sich o-führend auf die Innovation und Entwicklung der Elektronikfertigungstechnologie sowie anhaltende Anstrengungen für den PCB- und PCBA-One-Stop-Service, um erstklassige Dienste bereitzustellen und für unsere Kunden mehr Wert zu schaffen.

Bitte klicken Sie auf diese, um weitere Informationen zu erhalten: [P.Rofessional starrer flexibler PCB-Lieferant für Raspberry Pi 4 ABS-Koffer](#)

O-LEADING
To Be Reliable, To Be Valuable

WE ALWAYS PROVIDE YOU

BEST HIGH DENSITY INTERCONNECT PCB

WE ALWAYS PROVIDE YOU

BEST RIGID-FLEXIBLE CIRCUIT

Produktbeschreibung

Alphabot2 Wireless Video Smart Roboter von Raspberry Pi 4 mit PI4B-4GB angetrieben

Anwendbare Branchen: Fertigungsstätte, Farms, Food & Getränkshops, Andere

Showroom Ort: Keine

Produktname: Smart Roboter

Verwendung: OEM-Elektronik

Zertifikat: Rosh. ISO9001.

Lötmaske: Grün. Rot. Blau. Weiß. Schwarz Gelb

Service: ONE STOP TUEKY-SERVICE

Features: Quad-Core-Prozessor, Dual-Band Wireless LAN, Bluetooth 4.2 / BLE

Raspberry Pi 4 Video Robot With PI4B

AlphaBot2 Wireless Video Smart Robot

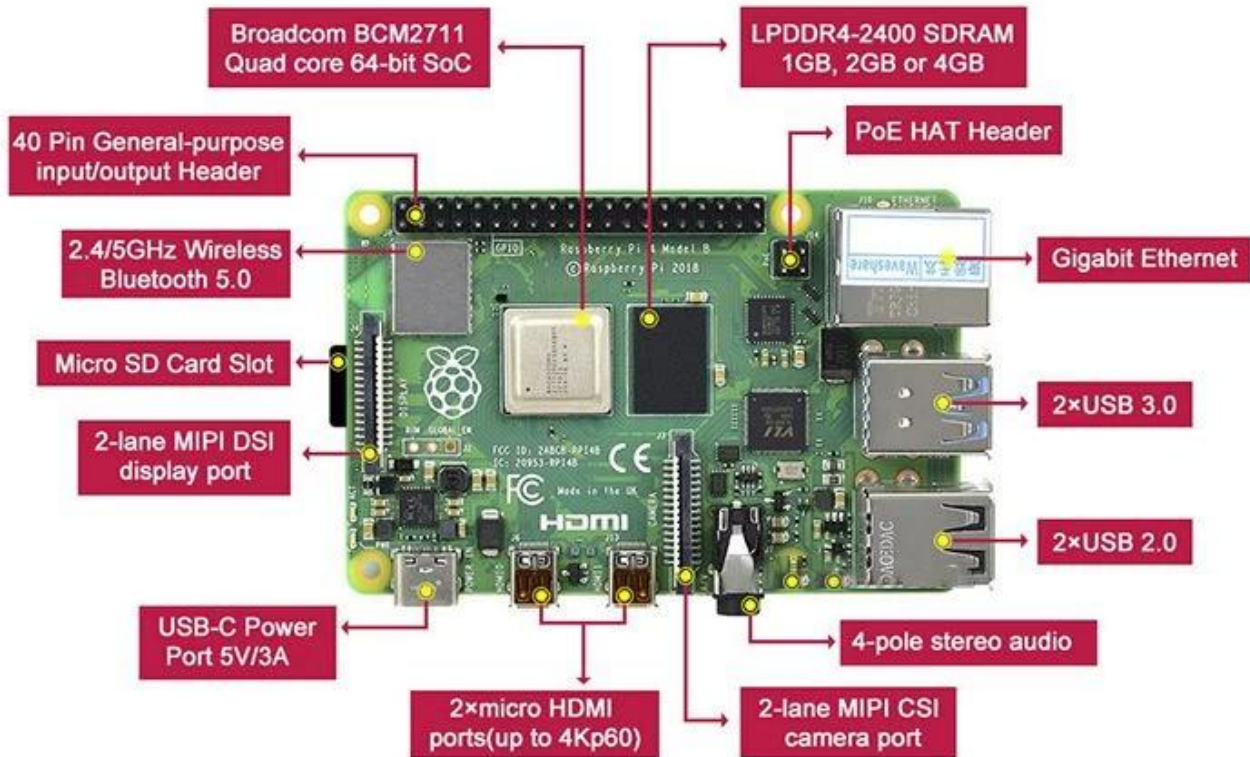
Obstacle Avoidance, Line Tracking, Wireless Remote Control, Video Monitoring...



* The Raspberry Pi 4 is optional, up to your choice.

Raspberry Pi 4 Completely Upgraded

More Powerful Processor, Richer Multi-Media Capability, Faster Networking

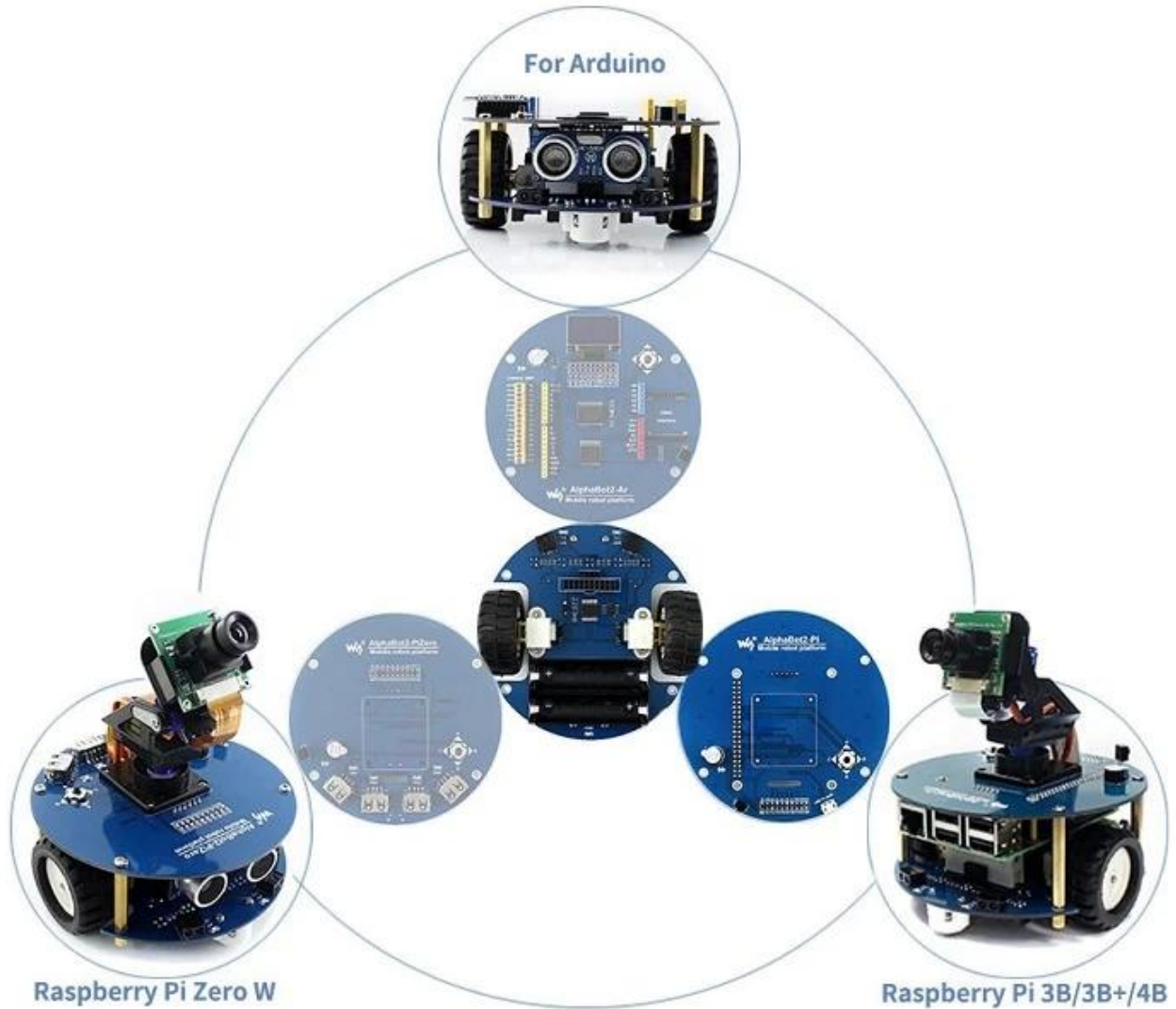


<p>BCM2711B0 64-bit 1.5GHz Quad-core Processor</p>	<p>Choice Of RAM 2GB / 4GB / 8GB</p>	<p>4K Dual HDMI 4K High Resolution Dual Displays</p>
<p>Faster Networking Gigabit ETH, Bluetooth 5.0, Dual-band WiFi</p>	<p>New USB3.0 2xUSB3.0 + 2xUSB2.0</p>	<p>USB-C Power Upgraded Power Supply, More Powerful</p>

Versatile AlphaBot2 Chassis

Compatible With Multi Controllers Via Related Adapter Boards (Purchased Separately)

Easily Turn It Into A Pi Zero / Arduino Robot



Modular Design, No More Messy Wiring

Highly Integrated AlphaBot2-Pi Adapter Board:

IR Obstacle Avoidance, 5-Ch Detector Li Tracking, Battery Charging Circuit, High Quality N20 Motor, Rubber Wheels, And Colorful RGB LED



Raspberry Pi 5MP HD Camera, 1080P

The Leading Role For Vision Applications, Like Mjpg-Streamer Video Monitoring, And OpenCV Intelligent Recognition Driving



Full Functionality, Common Examples

For More Possibilities, Refer To Example Code And Manual

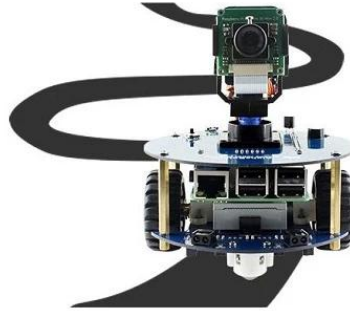


Obstacle Avoidance

The module sends IR beam and detects objects by receiving the reflected IR beam, to easily avoid obstacles in the way.

Auto Line Tracking

Features 5-ch IR detector for sensing and analysing the black line, combined with PID algorithm for adjusting robot movement, high sensitivity, stable tracking.



Bluetooth Control

Provides mobile APP to control the robot movement and peripherals, such as RGB LED color, onboard buzzer, etc.

Infrared Control

With the IR receiver onboard, it is allowed to control the robot via IR remote controller, make it move forward or change direction...



Web control (Mobile/Tablet/PC) Qt software control (PC) APP control (Android phone)



WiFi Control

Supports WiFi remote control, real time video monitoring via webpage / APP / PC, also features routing function by creating WiFi hotspot.

2-DOF Pan-Tilt

2-DOF pan and tilt + hardware PWM controlled servo, smoothly rotates the camera to capture omnibearing images.





AlphaBot2-Pi robot RGB LED control



AlphaBot2-Pi robot video monitoring



AlphaBot2-Pi robot Bluetooth control



multi AlphaBot2 robots line following



AlphaBot2-Pi robot obstacle avoiding

Kits Selection Guide

Various Raspberry Pi 4 Kits Are Available, Find Your Favorite One

Starter Kit

The very essential parts to get started, guaranteed compatibility and stability.

- 16GB Class10 high speed micro SD card
- 5V 3A Type-C power supply
- Cool brass heat sink
- Extra free micro SD card reader



Display Kit

Build your own all-in-one computer powered by Raspberry Pi 4, much more funny.

- 7inch wide viewing angle HD touch screen
- High quality black/white acrylic protective case
- HDMI to micro HDMI cable
- 16GB micro SD card, power supply...

Sensor Kit Pi x Arduino

Sensors are important parts of IoT, while the Arduino is a massive ecosystem, this kit provides a way for the Pi to make use of these powerful things.

1 + 1 > 2

- Pi to Arduino adapter board
- 13x popular sensors
- 16GB micro SD card, power supply...



Robot Kit AlphaBot

Make a Raspberry Pi smart mobile robot, easily use it for obstacle avoidance, line tracking, Bluetooth / IR / WiFi remote control, or video monitoring. Arduino compatible.

- AlphaBot driver board
- AlphaBot chassis
- Modules: Camera / Line tracking / Speed measuring...
- Raspberry Pi 4 is NOT included

Robot Kit AlphaBot2

Make a Raspberry Pi smart mobile robot, easily use it for obstacle avoidance, line tracking, Bluetooth / IR / WiFi remote control, or video monitoring. A smaller and more flexible one.

- AlphaBot2-Pi (adapter board)
- AlphaBot2-Base (base chassis)
- Modules: Camera...



Robot Arm Kit

Flexible and stable 4-DOF metal robot arm, allows to be controlled by smart phone through Bluetooth or WiFi connection.

"Just grab it"

- Servo driver board
- Metal mechanical arm structure
- 4x servos, power supply...
- Raspberry Pi 4 is NOT included

Unser Team

O-LEADING *CUSTOMER*

To be *RELIABLE*

- Quality first ,
- Customer supreme ,
- Scientifically management ,
- Striving for famous brand



THE CUSTOMER IS KING



To be *VALUABLE*

- Science and technology keeps head ,
- Put people first,
- Be precise and practical,
- contribute sincerely

Factory PCB



Automatic vacuum press machine



Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine



E-test Machine

Factory SMT



HOW O-LEADING MAKE A PROJECT FOR YOU

Hardware Dispenser Application Not

Automatic Dispenser Application Not

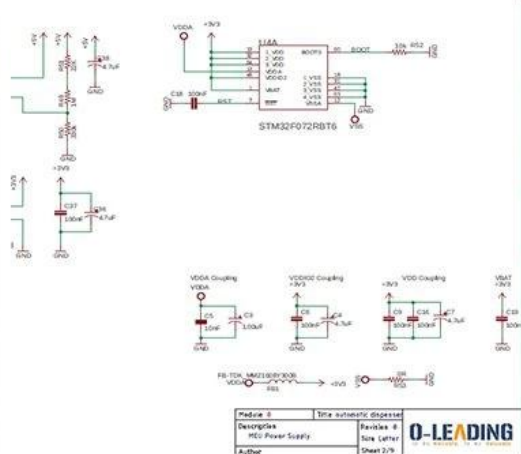
Voltage Table

Volt Pin Number	Description
VDD	Battery voltage
+3V3	+3.3V
+5V	+5V
USB +5V	USB 5V input
+5V/2	Isolated +5V
+12V	12V DC Drive

STM32F072 PINOUT table

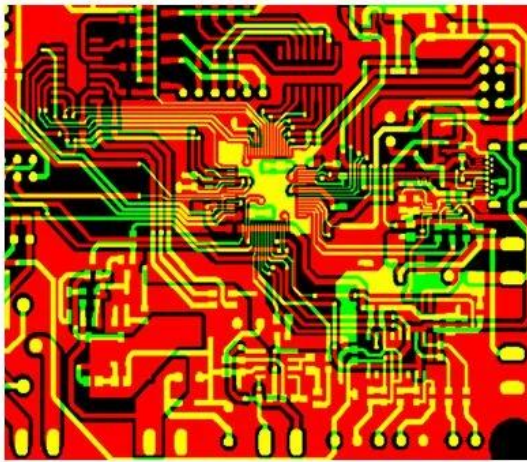
Wire Name	Description	DIO	Mode	Note
SMTN_TOF	Shutdown Time of flight sensor	Output	Logic '0' to shutdown	
I2C_SCL_TOF	I2C communication with time of flight sensor	I2C1_SCL		
I2C_SDA_TOF	I2C communication with thermopile sensor	I2C1_SDA		
I2C_SCL_IR	I2C communication with thermopile sensor	I2C2_SCL		
I2C_SDA_IR	I2C communication with thermopile sensor	I2C2_SDA		
RATE_LC	Load cell control pins	Output		
DOUT_LC	Load cell control pins	Output		

O-LEADING
TO BE RELIABLE, TO BE AVAILABLE

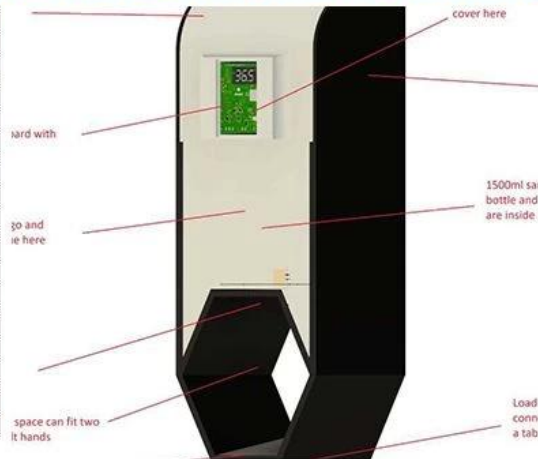
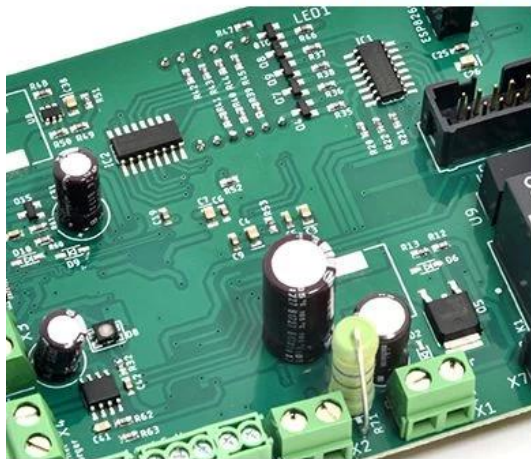


HARDWARE schematics

PCB PRODUCTION COMPONENTS SOURCING



Qty	Value	Device	Parts	Description
4	AK500/2	AK500/2	X1, X2	CONNECTOR
1	AK500/3	AK500/3	X7	CONNECTOR
1	1241148	MA04-2	SV2	
1	PPPC04	MA04-2	SV1	8 POS, 4*2 FEMALE PIN HEAD
1	ML10	ML10	SV4	HARTING
1	8MHZ	XTALL_CSTCE8M	X5	STCE8M00G52-R0 RESONATOR
1	0R	R-0603	R53	Thick Film Resistors - SMD 0603
2	10R	R-0603	R12, R5	Thick Film Resistors - SMD 0603
8	100R	R-0603	R1, R2	Thick Film Resistors - SMD 0603
1	270R	R-0805	R15	Thick Film Resistors - SMD 0605
1	330R	R-0603	R11	Thick Film Resistors - SMD 0603
9	680R	R-0603	R20, R3	Thick Film Resistors - SMD 0603
17	1k	R-0603	R9, R10	Thick Film Resistors - SMD 0603
2	4.7k	R-0603	R17, R6	Thick Film Resistors - SMD 0603
2	5.1k	R-0603	R18, R1	Thick Film Resistors - SMD 0603
9	10k	R-0603	R16, R3	Thick Film Resistors - SMD 0603



PCB Assembly MECHANICAL DESIGN

Skyworth 创维

HET 和而泰
HET INTELLIGENT CONTROL

dongweikeji
东威科技

美的 Midea

STAR-NET
星网锐捷

FORYOU
ADAYO 华阳集团

EDIFIER[®]

Cultraview 金锐显

3nod 三诺

T&W

TCL

AcBel 康舒科技
ACBEL POLYTECH INC.

Honeywell

Schneider
Electric

ZTE 中兴

EMERSON

BYD

PHILIPS


TE
connectivity

VIDEOTON

CUSTOMER VOICE IS EXTREMELY IMPORTANT TO US

订单编号: 49335463501024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)




High quality usb power pcb , pcba manufacturer

★★★★★

Fancy has done an excellent job, whenever we write, she answered us within 1 second, O-leading is very perfect with fast delivery, fast logistics, the most important thing is good quality, good packaging, thank you!

[回复该评论](#)



oem customized rohs pcb drawing schematic s...


★★★★★

We received the boards, the quality is very good, the price is very reasonable, Fancy is very nice & smart & experienced, the logistics is super fast, I will come to see more in the future.

[回复该评论](#)

订单编号: 4932411001024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High TG180 FR-4 Circuit HDI PCB 94V0 Board...

★★★★★

This is a very difficult PCB design, but we are lucky to find O-leading to support the PCB for us very good to a PCB supplier.




universal FR4 Multilayer PCB washing machine...

★★★★★

Fancy gives us very excellent service, very professional and experienced, O-leading is the best one of our suppliers, very happy to work with them.

订单编号: 49298271001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)




High TG180 FR-4 Circuit HDI PCB 94V0 Board ...

★★★★★

perfect product, perfect PCB supplier!

[回复该评论](#)




oem customized rohs pcb drawing schematic s...

★★★★★

Very good and professional PCB product as usual!

[回复该评论](#)



Strip LED Aluminum FR-4 lighting PCB board 9...


★★★★★

High quality, fast delivery, good service, competitive price, lucky and happy to purchase from O-leading!

[回复该评论](#)

订单编号: 49024962001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High quality Keyboard pcb & pcba Factory SMT...


★★★★★

Top quality, it's the right choice to choose O-leading to make the PCB & PCBA

[回复该评论](#)

订单编号: 4093842301024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)




Professional Printed Circuit Board Manufactur...

★★★★★

Very high quality PCB products, O-leading is the best PCB supplier that we have ever worked with.

订单编号: 44068794501034670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High TG180 FR-4 Circuit HDI PCB 94V0 Board ...


★★★★★

We bought two batches, one by DHL, the other one by air, good quality and fast delivery!

LISTEN TO CUSTOMER VOICE

订单编号: 40903347501024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



Strip LED Aluminum FR-4 lighting PCB board 9...

★★★★★

Very fast delivery! Fantastic, good job!!




Professional Printed Circuit Board Manufactur...

★★★★★

Very happy to great support from O-leading, they are not only professional on the PCB, but also provide good PCB products, very good supplier!

订单编号: 36919647001024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



AML-S802 Quad-core Android embedded boar...

★★★★★

Good products




Fast delivery low cost pcb fabrication O-leadin...

★★★★★

Good supplier

订单编号: 37378603001024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



hot sale rigid-flexible PCB with 0.2mm BGA an...

★★★★★


very professional supplier



High Quality custom FPCB/Flex PCB/FPC/Flexi...

★★★★★


Good product



OEM ODM PCBA Bluetooth Wireless Marking G...

★★★★★

high soldering quality




Electronic parts haptic pcba Circuit Board asse...

★★★★★

Very Good product

订单编号: 36919647001024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



Lidar IR Sensor board pcba(H08R6x)

★★★★★


perfect product



Customized PCBA design PCB design

★★★★★

perfect




Audio Speaker and Headphone Jack (H07R3x)

★★★★★

High quality, good

订单编号: 37378603001024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



Raspberry pi 0 Zero Raspberry Pi Zero P1 W ver...

★★★★★

Fantastic products!!




double layer pcb with red S/M and LF-HASL su...

★★★★★

Good!

订单编号: 36919647001024670


供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



half hole pcb, half hole pcb module, half hole m...

★★★★★


Top half hole pcb supplier, very perfect goods



High Quality custom FPCB/Flex PCB/FPC/Flexi...

★★★★★

this rigid-flexible pcb quality is perfect!



Electronic parts haptic pcba Circuit Board asse...

★★★★★

Very satisfied with O-leading products and quality, especially their on-time delivery, fantastic!

Be kind to your client, because he has many choices, but he chooses you instead.

Zertifizierungen

O-LEADING *TRAINING*



Keep *LEARNING*

There's a phrase in Buddhism, 'Beginner's mind.'

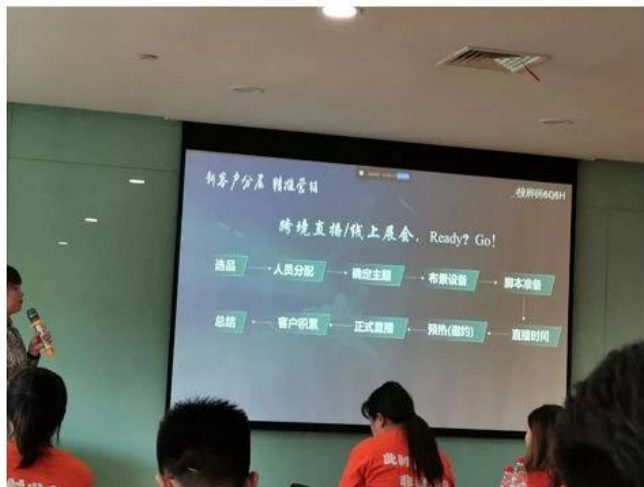
It's wonderful to have a beginner's mind

WE HAVE A *DREAM*

Keep *RUNNING*

I would like to live to study, and not study to live.

----Bacon





Test Report No. SZXEC1900530401 Date: 30 Mar 2019 Page 1 of 6

O-LEADING SUPPLY CHAIN (HK) CO., LIMITED
1313.FLOOR 13, FORTUNE BUILDING, DANSHUI TOWN, HUIYANG DISTRICT, HUIZHOU, GUANGDONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : OSP

SGS Job No. : RP19-005089 - SZ
Date of Sample Received : 22 Mar 2019
Testing Period : 22 Mar 2019 - 30 Mar 2019
Test Requested : Selected tests(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina
Tina Fan
Approved Signatory



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Test Report No. SZXEC1900530401 Date: 30 Mar 2019 Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX19-005304.001	Green"PCB"

- Remarks :
- (1) 1 mg/kg = 1 ppm = 0.0001%
 - (2) MDL = Method Detection Limit
 - (3) ND = Not Detected (< MDL)
 - (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	0/1
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	8
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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ZPMV2.E490354 - WIRING, PRINTED - COMPONENT

Wiring, Printed - Component

See General Information for Wiring, Printed - Component

O-LEADING SUPPLY CHAIN (HK) CO LTD

E490354

ROOM 1205, 12/F
TAI SANG BANK BLDG
130-132 DES VOEUS ROAD
CENTRAL, HONG KONG

Type	Cond Width			SS/ DS/ DSO	Max	Max			Meets UL796	C T	
	Min	Cond	Area		Solder	Flame	Class				
	Min	Edge			Thk			Oper			
mm(in)	mm(in)	mic(mil)	Diam	Limits	Temp	DSR	I				
Multilayer (mass laminate) printed wiring boards.											
O-LEADING-401	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	12.7 (0.5)	260	10	130	V-0	-	-
O-LEADING-407	0.08 (0.003)	0.2 (0.008)	17 (0.67)	DS	9.7 (0.4)	260	10	130	V-0	All	-
Multilayer printed wiring boards.											
O-LEADING-408	0.125 (0.005)	0.125 (0.005)	12 (0.47) Int:136	DS	50.8 (2.0)	280	20	130	V-0	All	*
Single layer printed wiring boards.											
O-LEADING-002	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	105	V-0	All	-
O-LEADING-003	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	130	V-0	▲	-
O-LEADING-033	0.15 (0.006)	0.3 (0.012)	34 (1.34)	SS	25.4 (1.0)	260	10	120	V-0	All	-
O-LEADING-205	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	69.6 (2.7)	260	10	130	V-0	All	-
O-LEADING-206	0.15 (0.006)	0.33 (0.013)	17 (0.67)	DS	69.6 (2.7)	260	10	130	V-0	All	-
O-LEADING-D01	0.14 (0.006)	0.15 (0.006)	33 (1.30)	DS	25.4 (1.0)	260	10	130	V-0	All	*
O-LEADING-S01	0.25 (0.010)	0.25 (0.010)	17 (0.67)	SS	25.4 (1.0)	260	4	130	V-0	All	*

WIRING, PRINTED - COMPONENT | UL Product iQ

O-LEADING-S02	0.2 (0.008)	0.2 (0.008)	17 (0.67)	SS	25.4 (1.0)	260	4	130	HB	▲	*
O-LEADING-S03	0.25 (0.010)	0.25 (0.010)	34 (1.34)	SS	25.4 (1.0)	260	4	130	V-0	All	*

* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

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Prozessfähigkeit

PCB-Produktionsfunktionen

Schichtzählung	1LAYER-32LAYER.
Fertige Kupferdicke.	1 / 3oz-12oz
Min Linienbreite / Abstand intern	3.0mil / 3,0mil
Min Linienbreite / Abstand extern	4.0mil / 4.0mil
Max-Seitenverhältnis.	10: 1.
Boarddicke.	0,2mm-5,0 mm.
Max-Panel-Größe (Zoll)	635 * 1500mm.
Minimum Bohrlochgröße	4mm
Plathtische Lochtoleranz	+/- 3mil
Blind / begrabene Vias (All-Typen)	JA
Via Fill (leitfähig, nicht leitend)	JA
Basismaterial	FR-4, FR-4High tg.halogenfreies Material, Rogers, Aluminiumbasis,Polyimid, schweres Kupfer
Oberflächenoberflächen	Hasl, osp, enig, hal-lf, Immision silber, Linssion Zinn, Goldfinger, Kohlenstofffarbe

SMT-Produktionsfunktionen

PCB-Material	FR-4, CEM-1, CEM-3, Bord auf Aluminiumbasis, FPC
MAX PCB-Größe.	510x1500mm.
Min leiter leiterbahn	50x50mm.
PCB-Dicke.	0,5 mm-4,5 mm
Boarddicke.	0,5-4 mm
MIN-Komponentengröße.	0201.
Standard-Chipgröße-Komponente	0603 und größer
Max-Höhe der Komponente	15mm
Min bleifreie Stelle	0,3mm
Min BGA Ball Pitch	0,4 mm
Platzierungsgenauigkeit	+/- 0,03 mm

Verpackung & Lieferung

Shipping service



Quick Turn Lead Time		
Layer Count:	Lead Tim	Special Requirement
1L/2L	2-3days	24 Hours,48 Hours
4L	3-4days	48 Hours
6L	4-5days	72 Hours
8L	5-6days	NA
10L	6-7days	NA
12L	7-8days	NA
14L	8-9days	NA

Standard Lead Time		
Layer Count:	Sample Lead Time	Volume order lead time
2L	4 days	10 days
4L	5 days	11 days
6L	6 days	12 days
8L	8 days	14 days
10L	10 days	16 days
12L	12 days	18 days
14L	14 days	20 days
16-32L	18 days	24 days

FAQ

1. Wie sorgt o-leitende Qualität? Unser hoher Qualitätsstandard wird folgendermaßen erreicht.

1.1 Der Prozess wird unter ISO 9001: 2008 strikt gesteuert.

1.2 Umfangreiche Verwendung von Software beim Verwalten des Produktionsprozesses

1.3 Stand der Kundendienstgeräte und -werkzeuge. Z.B. Fliegende Sonde, Röntgeninspektion, AOI (automatisierter optischer Inspektor) und IKT (In-Circuit-Tests).

1.4.Dediziertes Qualitätssicherungsteam mit Misserfolg-Case-Analyseprozess

1.5. Kontinuierliches Personalschulungen und Ausbildung

2. Wie halten o-führe Ihren Preis wettbewerbsfähig?

In den letzten zehn Jahren hatten sich die Preise vieler Rohstoffe (z. B. Kupfer, Chemikalien) verdoppelt, verdreifacht oder vervierfacht; Chinesische Währung RMB hatte 31% über US-Dollar geschätzt. Und unsere Arbeitskosten stiegen ebenfalls deutlich an.

O-Leder hat jedoch unsere Preisgestaltung festgehalten. Dies gilt ausschließlich unseren Innovationen bei der Verringerung von Kosten, der Vermeidung von Abfällen und Verbesserung der Effizienz. Unsere Preise sind in der Branche auf demselben Qualitätsniveau sehr wettbewerbsfähig.

Wir glauben an eine Win-Win-Partnerschaft mit unseren Kunden. Unsere Partnerschaft wird sich gegenseitig vorteilhaft, wenn wir Ihnen eine Ankreis und Qualität bieten können.

3. Welche Arten von Boards können den o-führenden Prozess?

Common FR4, High-TG- und halogenfreie Boards, Rogers, Arlon, Telfon, Aluminium / Kupferbücher, PI usw.

4. Welche Daten sind für die PCB- und PCBA-Produktion erforderlich?

4.1 BOM (Bill of Materials) mit Referenzdesignatoren: Komponentenbeschreibung, Name und Teilenummer des Herstellers.

4.2 PCB-Gerber-Dateien.

4.3 PCB-Fabrikationszeichnung und PCBA-Montagezeichnung.

4.4 Testverfahren.

4.5 Alle mechanischen Einschränkungen wie Montagehöhenanforderungen.

5. Was ist der typische Prozessablauf für Multi-Layer-PCB?

Materialschneiden → Innen-Trockenfilm → Innenätzen → Innen-AOI → Multi-Bond → Schicht-Stapel-Up-Pressung → Bohrung → PTH → Paneel-Plattierung → Außen-Trockenfilm → Muster-Plattierung → Außenätzen → Außen-AOI → Lötmaske → Komponentenmarke → Oberfläche → Routing → e / t → Sichtprüfung.

6. Was ist die wichtigsten Ausrüstungen für die HDI-Fertigung?

Die Liste der wichtigsten Geräte lautet wie folgt: Laserbohrmaschine, Pressmaschine, VCP-Leitung, automatische Belichtungsmaschine, LDI und etc.

Die Anlagen, die wir haben, sind die besten in der Branche, Laserbohrmaschinen stammen aus Mitsubishi und Hitachi, LDI-Maschinen stammen aus dem Bildschirm (Japan), automatische Auslösemaschinen sind ebenfalls von Hitachi, alle können die technischen Anforderungen des Kunden erfüllen.

7. Wie viele Arten von Oberflächenabhör-O-Blei kann?

O-Der Anführer hat die vollständige Serie der Oberflächengüte, z. Osp, enig, osp + enig häufig auf dem HDI verwendet, empfehlen wir normalerweise, dass Sie einen Client oder OSP OSP + Enig verwenden, wenn BGA-Pad-Größe weniger als 0,3 mm beträgt.

8. Wie ist Ihre Fähigkeit für FPC? Kann o-führend auch SMT-Dienst bereitstellen?

O-führend kann FPC von der einzelnen Ebene bis hin zu 8layer herstellen. Die Größe des Arbeitsplattens kann so groß wie 2000 mm * 240 mm sein, bitte finden Sie die Details auf der Seite "Flex-Fähigkeit" Wir bieten auch SMT One Stop-Service an den Kunden an.

9. Was sind die Hauptfaktoren, die den Preis der Leiterplatte beeinträchtigen?

Material;

Oberflächenfinish;

Technologieschwierigkeit;

Verschiedene Qualitätskriterien;

PCB-Eigenschaften;

Zahlungsbedingungen;

Verschiedene Fertigungsländer.

10. Was ist die Definition von PCB, PWB und FPC und was ist der Unterschied?

PCB ist für die Leiterplatte kurz;

PWB ist kurz für gedruckte Wire Board, gleiche Bedeutung wie bedruckte Leiterplatte;

FPC ist kurz für flexibles Druckplatine.

11. Welche Faktoren sollten bei der Auswahl des Materials für ein PCB-Board berücksichtigt werden?

Unter den Faktoren sollten berücksichtigt werden, wenn wir das Material für die PCB auswählen:

Der TG-Wert des Materials sollte größer sein als die Betriebstemperatur;

Niedriges CTE-Material hat eine gute Leistung der thermischen Stabilität;

Gute Wärmewiderstandsleistung: Normalerweise sind PCBs erforderlich, um mindestens 50er Jahre 250 °C zu widerstehen.

Gute Ebenheit; Unter Berücksichtigung der elektrischen Eigenschaften wird auf Hochfrequenzglücke geringer Verlust / hoher Permittivität verwendet; Polyimidglasfasersubstrat für flexible Leiterplatte; Metallkern wird verwendet, wenn das Produkt eine strikte Anforderung der Wärmeableitung aufweist.

12. Was ist die Verdienste von o-führenden starre-flex Iglücke?

Die Rigid-Flex-PCB von o-führend hat die Zeichen von FPC und PCB, sodass sie in einigen speziellen Produkten verwendet werden kann. Ein Teil ist flexibel, während der andere Teil starr ist, es kann helfen, den Innenraum des Produkts zu retten, das Produktvolumen zu senken und die Leistung zu verbessern.

13. Wie machen Sie die Impedanzberechnung?

Das Impedanzsteuerungssystem erfolgt mit einigen Testgutscheinen, dem SI6000 Soft- und den Cits 500s-Geräten aus polaren Instrumenten.

Das Gerät misst die Impedanz auf einem repräsentativen Track-Konfigurationskupon, dessen Kunde uns einen bestimmten Wert und Toleranz erteilt hat.