

Capacitive Fingerprint...

Welcome deal

91 sold ★4.8

R503 New RGB Ri...

Welcome deal

41 sold ★5

GROW R503-5V R...

Welcome deal

18 sold ★5

GROW R502-A RG...

Capacitive Fingerprint...

Welcome deal

24 sold ★3

SFM-V1.7 Semicon...

Description

Specifications

Customer Reviews (4)

You may also like

Description

Report Item



Serial	Round Capacitive Fingerprint Module							
Model	R502-A	R502-F (Waterproof)	R502-AW	R503 (Waterproof)	R503-5V (Waterproof)	R503-M22 (Waterproof)	R503Pro (Waterproof)	R503S (Waterproof)
Pic								
Size	diameter 22 mm	diameter 21.5 mm	50*50*8.4 mm	diameter 28 mm (M25)	diameter 28 mm (M25)	diameter 25 mm (M22)	diameter 28 mm (M25)	diameter 28 mm (M25)
Interface	UART	UART	UART	UART	UART	UART	UART/USB	UART
Voltage	DC 3.3V	DC 3.3V	DC 3.3V	DC 3.3V	DC 5V	DC 3.3V	UART:DC 3.3V USB: DC5V	DC 3.3V
Resolution	508 DPI	508 DPI	508 DPI	508 DPI	508 DPI	508 DPI	508 DPI	508 DPI
Working Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Fingerprint Capacity	200	200	200	200	200	200	1500	150
Sensing Array	192*192 pixel	192*192 pixel	192*192 pixel	192*192 pixel	192*192 pixel	192*192 pixel	192*192 pixel	160*160 pixel
Collection Area	diameter 15.5mm	diameter 15.5mm	diameter 15.5mm	diameter 15.5mm	diameter 15.5mm	diameter 15.5mm	diameter 15.5mm	diameter 15.5mm
Finger Touch Function	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LED Color	RGB	RGB	RGB	RGB	RGB	RGB	RGB	RGB
LED Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connector	SH 1.0mm 6pin	SH 1.0mm 6pin	SH 1.0mm 6pin	SH 1.0mm 6pin	MX 1.25mm 6pin	SH 1.0mm 6pin	SH 1.0mm 6pin	SH 1.0mm 6pin
Connect Control Board	KS200/K202/K215-V1.3/KL216/K219-A/K220/KS220/K236-A	KS200/K202/K215-V1.3/KL216/K219-A/K220/KS220/K236-A	KS200/K202/K215-V1.3/KL216/K219-A/K220/KS220/K236-A	KS200/K202/K215-V1.3/KL216/K219-A/K220/KS220/K236-A	/	KS200/K202/K215-V1.3/KL216/K219-A/K220/KS220/K236-A	/	KS200

Product Description

1. Integrated image collecting and algorithm chip together, ALL-in-One
2. The flexibility to adapt to the conditions was the fingers, whether it is dry fingers, wet fingers, light texture fingerprints fingers, and old fingers, all have high recognition rate
3. The main application areas: can be embedded into a variety of end products, such as: access control, attendance, safety deposit box

***The R502-F is waterproof design.(Except the connector part, after install the R502-F, you can protect it by yourself)**

***Waterproof Level: IP65**

***When the temperature of the use environment fluctuates greatly, it may affect the glue, thus affecting the waterproof effect.**

***R502-F can connect with K200-3.3,K202,K215-V1.3,K216,K219-A,K220,K236-A Fingerprint control board.**

*****The different between R502-F with R502-A:**

R502-F is waterproof design. R502-A is not.

Size have a little different.

*****The different between R502-F with R503:**

R503 have a zinc alloy enclosure, easy for installation. You can make a M25 hole and install it directly.

R502-F don't have enclosure, but it is smaller and waterproof.

Product Specification

Model	R502-F
Type	Capacitive Fingerprint Module
Interface	UART(TTL)
Resolution	508 DPI
Voltage	DC 3.3V
Fingerprint Capacity	200
Sensing array	192*192 pixel
Working current	20mA
Standby current	Typical touch standby voltage: 3.3V, Average current: 2uA
Fingerprint module external size	Diameter 21.5 (mm)
Fingerprint module inner size	Diameter 19.4 (mm)
Fingerprint module height	9 (mm)(Except the connector)
Effective collection area	Diameter 15.5 (mm)
Connector	MX1.0-6Pin
LED Control	YES
LED Color	RGB
Scanning Speed	< 0.2 second
Verification Speed	< 0.3 second
Matching Method	1:1; 1:N
FRR	≤1%
FAR	≤0.001%
Work environment	-20C ---60C
Work Humidity	10-85%
Anti-static capacity	15KV
Abrasive resistance intensity	1 million times
Communications baud rate (UART):	(9600 × N) bps where N = 1 ~ 12(default N = 6, ie 57600bps)

Product Files

- Provide Free Reference SDK Files for Arduino, Android,.Net,Windows and so on.
- Provide User Manual

You can download the R502-F user manual from this website link:

<https://www.dropbox.com/sh/epucei8lmoz7xpp/AAAmon04b1DiSOeh1q4nAhzAa?dl=0>

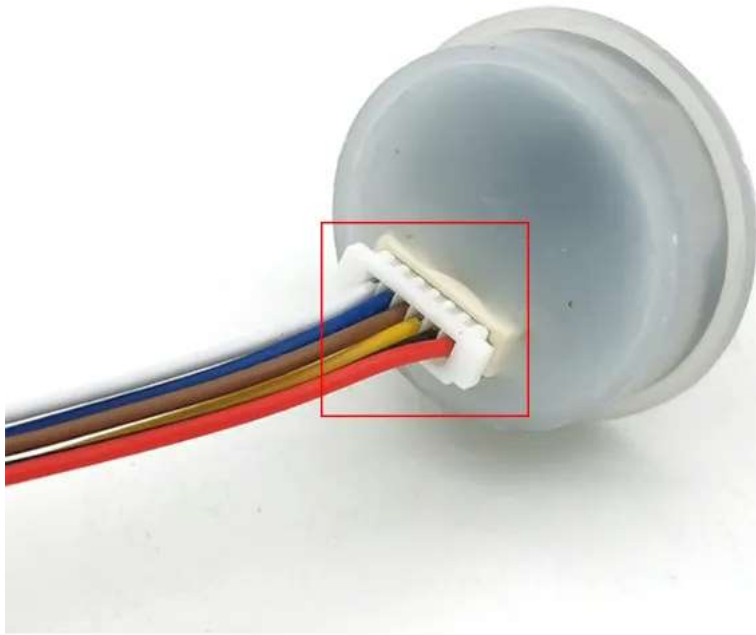
R502-F Operation display video on Youtube: <https://youtu.be/sVrZ7S1slDw>

If need SDK files,pls contact us.

Product Pictures

GROW 廣章





Note: The connector part is not waterproof
After install it you can protect it by yourself

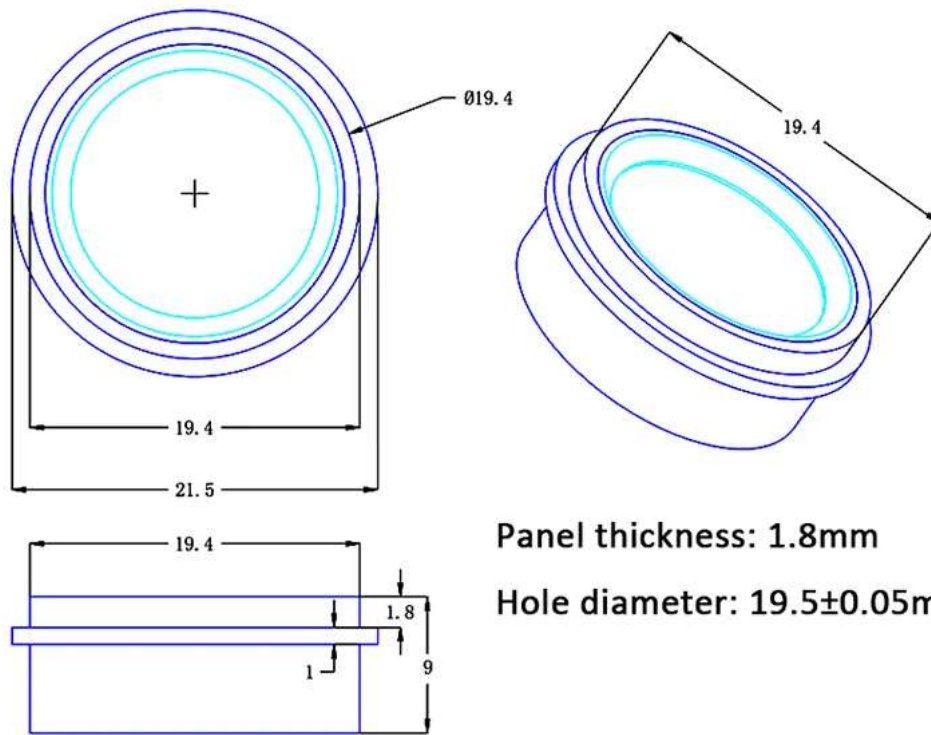




LED Effect picture(Already updated to RGB LED)



Size



Panel thickness: 1.8mm

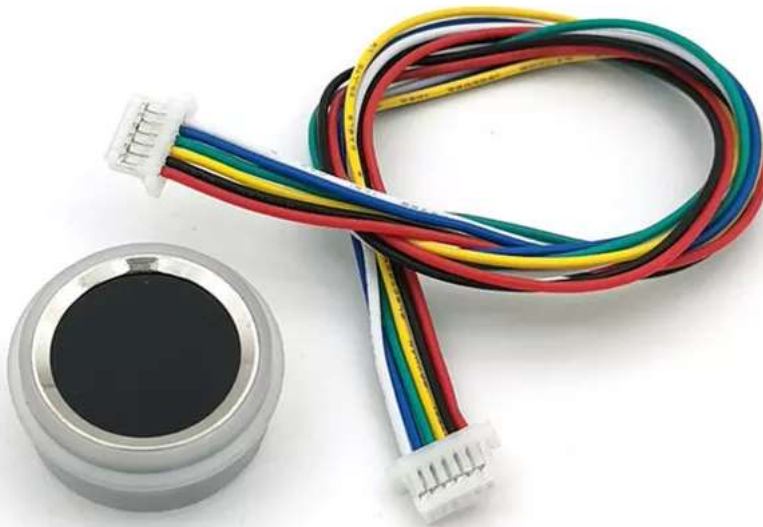
Hole diameter: 19.5 ± 0.05 mm

Cable Definition



Pin	Name	Description	Pic
1	Power Supply	DC3.3V	
2	GND	Signal ground. Connected to power ground.	
3	TXD	Data output. TTL logical level	
4	RXD	Data input. TTL logical level	
5	WAKEUP	Finger Detection Signal	
6	3.3VT	Touch induction power supply, DC3—5V	

Package Listing



CE Certificate



Specifications

Model Number	R502-F	Brand Name	grow
Origin	Mainland China	Smart home platform	Other
Certification	CE	Interface	RS232 (TTL)
Voltage	DC 3.3V	Fingerprint module size	21.5mm
Effective collection area	Diameter 15mm	Fingerprint capacity	200
Resolution	508 DPI	Sensing array	192*192 pixel

LED Control	Yes	Working current(Fingerprint acquisition)	20mA
Standby current(finger detection)	3.3V,2uA	Weight	5g

Customer Reviews (4)

5.0

★★★★★

All reviews come from verified purchasers

5 stars

4 stars

3 stars

2 stars

1 stars

4

0

0

0

0

All(4)

Local review(1)

5 stars(4)

great(2)

good quality(1)

as described(1)

Sort by default Show original translate

- ★★★★★

Color:R502-F

Product was as described

Helpful(0)

06 Oct 2023

W***h
- ★★★★★

Color:K215-V1.3 R502-F

Great👍Thank you seller, packed with good quality

Helpful(0)

12 Apr 2023

D***y
- ★★★★★

Color:K215-V1.3 R502-F

It's great!

Helpful(0)

29 Apr 2023

V***n

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Buyer Questions & Answers (0)

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