

### The latest miniature touch sensor

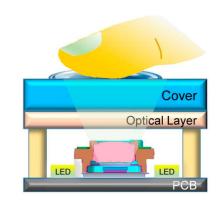
The FPM-1633K1 is the latest miniature touch sensor with extensive enhancements on power consumption and user flexibility. It allows 360-degree rotation, which enables maximum performance without compromising on design aesthetics.

The product integrate optical sensor, light source and touch under cover glass, allowing it to instantaneously capture high resolution images of the fingerprint while rapidly outputting the captured





- Outdoor application (especially rainy day)
- Under glass design and no ESD concern
- Support 2.0mm cover glass
- Anti -scratch and good protection
- Wet finger recognition workable with water pouring and water drop
- Built-in touch and Self-luminous without additional light indicator
- Matching on Chip (MOC)
- Precise Biometrics Biomatch® embedded matching algorithm
- Support hole-less cover (good ID)

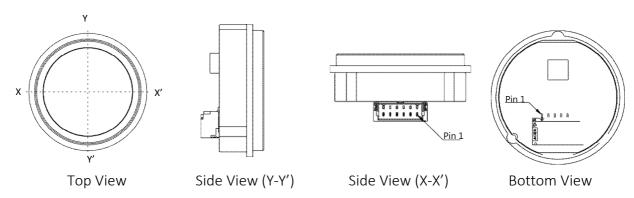


#### **SPECIFICATION**

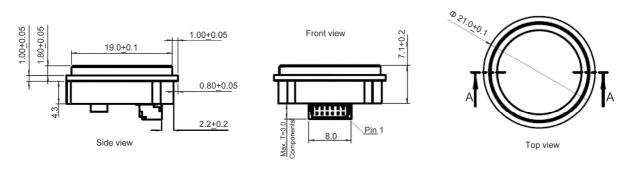
Туре	Item	Specification		
Module	Dimension	Ø21.0mm(OD), Ø19.0mm(ID) H=7.1mm (include 1.8mm cover glass & 0.8mm PCB)		
	Weight	6g + 0.05g		
Fingerprint	Supply voltage	3.3V		
	Active Mode Supply Current	67.3mA		
	Effective sensing area	8 mm x 8 mm		
	Resolution	508 dpi		
	Enroll times	8 times		
	FRR / FAR	@FAR=1/50K		
	Storage capacity	30 pieces		
	Interface	UART		
	baud rate	115200 bps		

Type	ltem	Spec			
	Supply voltage	3.3V	Ready-made Control Board		
Touch	Standby Mode Supply Current	3uA@3.3V			
	Trigger	Active high			
Light	Exterior color	Green			
Environment	Operating Temperature	-30°C~70°C			
	Storage Temperature	-40°C~85°C			
	Humidity	40% ~ 85% RH under 60°℃	PCB size: 25 x 32 x 1.6mm		
	ESD protection	IEC61000-4-2 Air discharge±15KV;Contact discharge±8KV			

### **MODULE DRAWING**



# **MODULE DIMENSION**



# **DC CHARACTERISTICS**

Туре	Parameter	Min	Тур	М	ax	Unit
	Power supply		3.3			V
	Operating current		67.3			mA
- Fingarprint	Input high voltage	2.3		3.0	6	V
Fingerprint	Input low voltage	-0.3		1.	0	V
	Output high voltage		3			V
	Output low voltage					V
	Power supply	2.7	5.5			V
Touch	Operating current	1.5				mA
	Standby current(@3.3V)	3				uA
Environment	Operating Temperature	-30	70			$^{\circ}\!\mathbb{C}$
Environment	Storage Temperature	85				$^{\circ}\!\mathbb{C}$

<sup>\*</sup> Features and specification are subject to change without notice.

