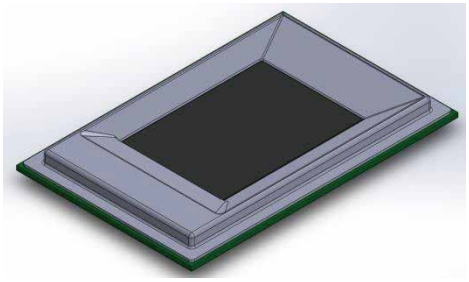
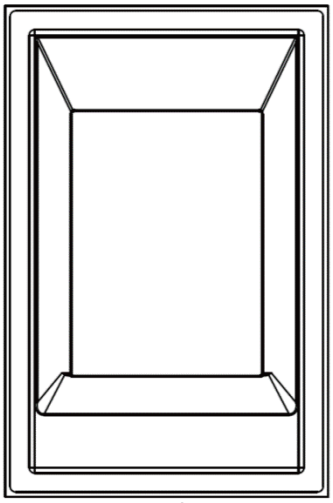
A365 FINGERPRINT MODULE

The A365 fingerprint module is a compact fingerprint reading module. The sensor is based on capacitive-contact technology with hardened surface and enhanced ESD resistivity.

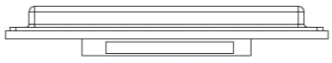


FEATURES

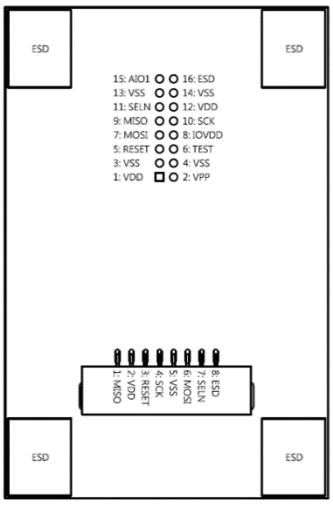
- 2D capacitive fingerprint area sensor
- sensor array of 360x256 pixels
- 508 DPI spatial resolution
- 8-bit gray levels
- 18.0 mm x 12.8 mm active sensing area
- High speed SPI interface
- Image capture speed up to 2 Mpixel/sec
- ESD protection : + / - 15kV (Air mode)
- Low power : Normal and Stand-by modes
- > 3.5 million finger placements
- FPC/FFC connection interface
- SMD (SMT Device) design (optional)



Top View



Front View



Bottom View

SPECIFICATION

Parameter	Value	Unit
Dimensions	35.00 x 23.00 x 3.66	mm
Dimensions (sensor)	18.81 x 13.54	mm
RCA (sensor)	> 350	cycles
ESD (IEC61000-4-2, level X, air discharge)	+ / - 15	kV
Operating temperature range	-20 ~ 80	℃
Extended humidity range	< 90	%
Operating voltage range	2.7~3.3	V
IO pin voltage range	1.8~3.3	V
Supply current Normal mode	3.5	mA
Supply current Stand-by mode	50	uA
interface	SPI	

wizarPOS

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INTERFACE: FPC/FFC connection (Default)

The A365 module uses 8 pin FPC/FFC to communicate with other device. Data transfer uses SPI interface.

PIN NO.	PAD Name	Description
1	MISO	SPI MISO
2	VDD	2.7 to 3.3V power input
3	RESET	Module reset
4	SCK	SPI CLOCK
5	VSS	Ground
6	MOSI	SPI MOSI
7	SELN	Active low signal to select the device
8	ESD	ESD pin

INTERFACE: SMT flat contacts (Optional)

The A365 module can use a set of flat contacts to communicate with other device. Data transfer uses SPI interface.

PAD NO.	PAD Name	Description
1	VDD	2.7 to 3.3V power input
2	SELN	Active low signal to select the device
3	SCK	SPI CLOCK
4	MISO	SPI MISO
5	IOVDD	1.8 to 3.3V power input for I/O
6	MOSI	SPI MOSI
7	TEST	Test signal
8	RESET	Module reset
9	VSS	Ground
10	VPP	OTP data writing control
11	RING	Active driving signal test point
ESD	ESD	ESD pads