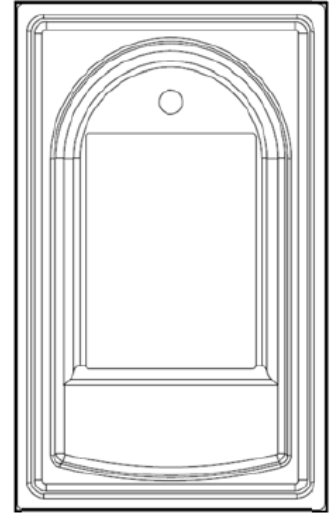


IDA285-MR *Fingerprint Module*

IDA285-MR FINGERPRINT MODULE

The IDA285-MR 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 288x208 pixels
- 508 DPI spatial resolution
- 8-bit gray levels
- 14.6mm x 10.6mm active sensing area
- High speed SPI interface
- Image capture speed up to 2Mpixel/sec
- ESD protection: $\pm 15\text{KV}$ (Air mode)
- Low power: Normal and Standby modes
- FPC/FFC connection interface
- SMD(SMT device) design(option)

SPECIFICATION

Parameter	Value	
Dimensions	33.40mm x 20.40mm x 2.33mm	
Sensor Dimensions	14.60 mm x 10.60mm x 0.60mm	
RCA (sensor)	>350 cycles	
ESD	$\pm 15\text{KV}$	
Operating temperature	$-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$	
Extended humidity range	<90%	
Operating voltage range	2.7V ~3.3V	
IO pin voltage range	1.8V ~ 3.3V	
Supply current	Normal mode	3 mA
	Standby mode	25 uA
Interface	SPI	

IDA285-MR *Fingerprint Module*

INTERFACE: FPC/FFC connection(Default)

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

INTERFACE: SMT contexts (Optional)

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

ORDERING INFORMATION

Reference	Part Number
A285 module with FPC/FFC connector	IDA285-MRC-K01
A285 module with SMT flat contacts	IDA285-MRQ-K01

