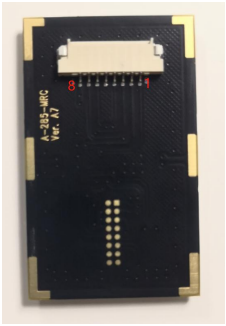
A7 Fingerprint Module

A7 FINGERPRINT MODULE



The A7 fingerprint module is a compact fingerprint reading module. The sensor is based on capacitive-contact technology with hardened surface and enhanced ESD Resistivity

FEATURES



1. 2D capacitive fingerprint area sensor
2. sensor array of 288x208 pixels
3. 508 DPI spatial resolution
4. 8-bit gray levels
5. 14.4 mm x 10.4mm active sensing area
6. High speed SPI interface
7. Image capture speed up to 2 Mpixel/sec
8. ESD protection : + / - 15kV (Air mode)
9. Low power : Normal and Stand-by modes
10. > 3.5 million finger placements
11. FPC/FFC connection interface
12. SMD (SMT Device) design (optional)

SPECIFICATION

Parameter	Value	Unit
Dimensions	33.40x20.40x4.00	mm
Dimensions(sensor)	10.543x14.998	mm
RCA(sensor)175g	>200	cycles
ESD(IEC61000-4-2,level X,air discharge)	+/-15	KV
Operating temperature range	-20 ~ 80	℃
Extended humidity range	< 90	%
Operating voltage range	3.0~3.6	V
IO pin voltage range	3.0~3.6	V
Supply current Normal mode	8(max)	mA
interface	SPI	

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INTERFACE: FPC/FFC connection (Default)

The A7 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	3.0 to 3.6V power input
3	RESET	Module reset
4	SCK	SPI CLOCK
5	VSS	Ground
6	MOSI	SPI MOSI
7	CS	Active low signal to select the device
8	ESD	ESD pin

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