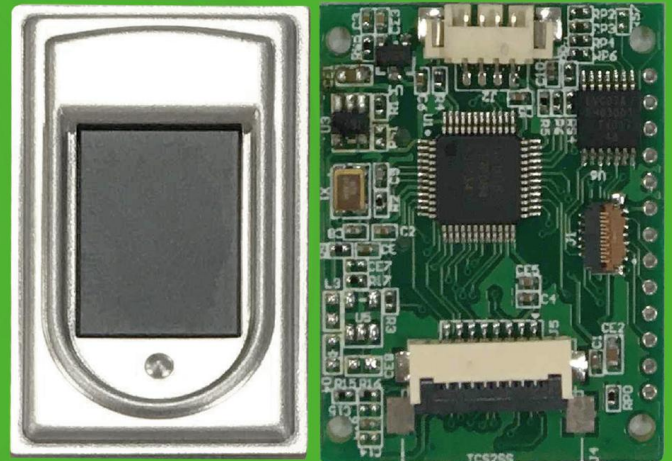


PD302C Fingerprint Module



PD302C

Capacitive Fingerprint
Module



Applications

- ❖ Access Control
- ❖ Time Attendance
- ❖ ATM,POS,PDA
- ❖ Voter ID verification
- ❖ Consumer electronics
- ❖ Mobile identification
- ❖ Information Security
- ❖ Medical Equipment

Features

- ◆ **High Image Quality:** Capacitive fingerprint technology with superior image quality
- ◆ **Fake Finger Rejection:** live-scan technology to reject fake fingers
- ◆ **Strong Adaption:** Good adaption for dry, moist and rough fingerprints
- ◆ **Correction and Authentication:** Support auto correction and 360 degree rotation authentication
- ◆ **Small power consumption:** work current<40mA, Sleep current<20uA
- ◆ **Easy to Develop:** SPI and USB supported
- ◆ **International Standard:** ISO/IEC 19794-2, ISO/IEC 19794-4,ANSI 378 and WSQ supported
- ◆ **SDK Support:** Windows, Android and HTML

PD302C Fingerprint Module



Performance Parameter

Size sensor array	208*288 pixel
Sensor Type	Capacitive
Image Resolution	508 dpi
FAR	0.001%
FRR	0.1%
Fingerprint Capacity	1700/2000/3000
Processor	32-bit ARM Cortex-M3 self-algorithm
Fingerprint Collector	HYF A288
Touches	>10million
Enrollment Time	<1s
Matching Time	<0.45s (1: 1), <1.5s (1: N, 100)
Fingerprint Template	498 template
Matching Mode	1:1/1:N
Time of Response	Min 0.2s&Max 1.5s

Communication Mode

Interface	USB and SPI
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Operation Environment

Operating Temperature	-20℃ to 80℃
Storage Humidity	17~96%
Work Humidity	20~85% R.H

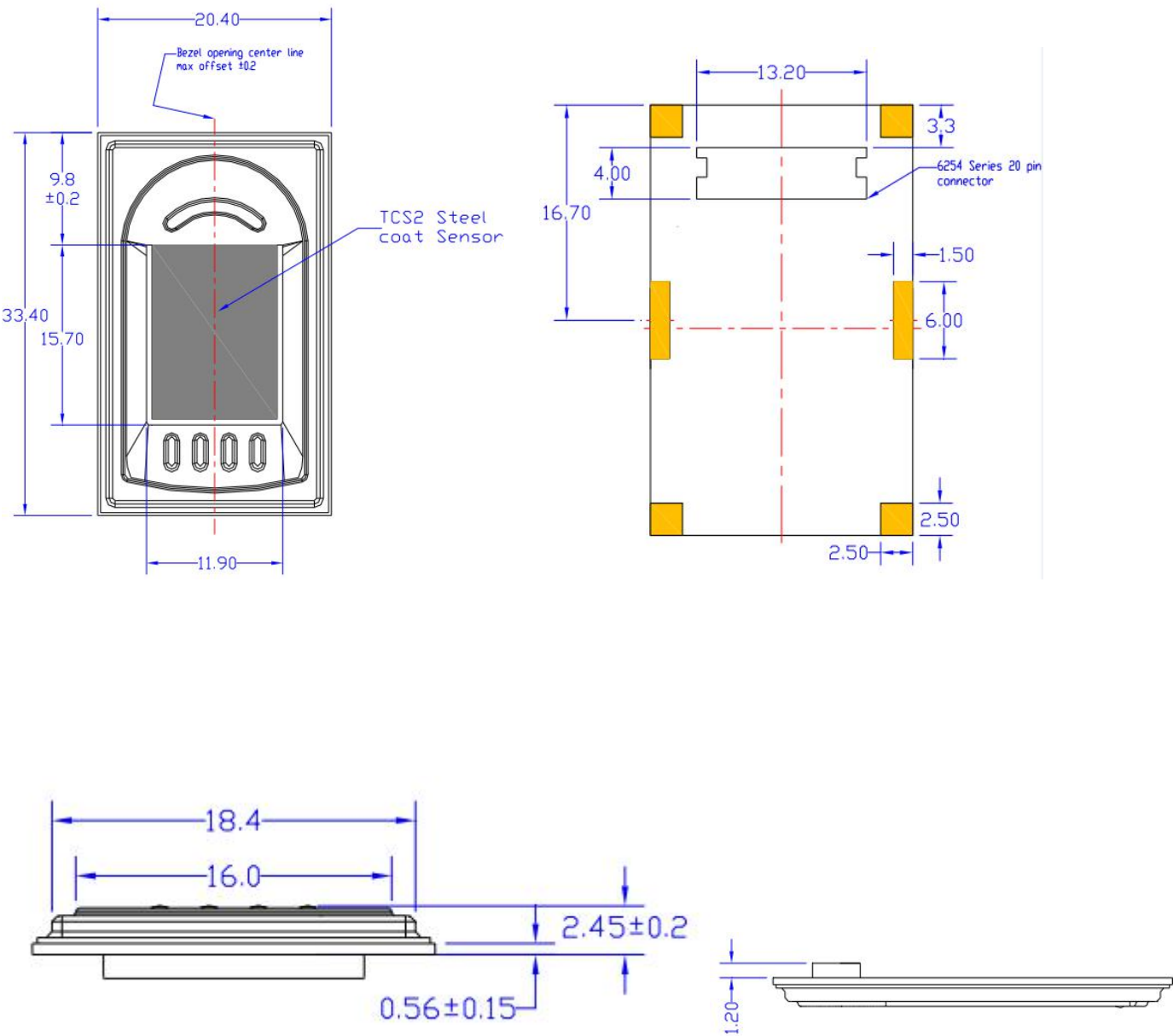
Electrical Parameter

Working Current	<45mA
Working Voltage	3.3/5V
Working Current Sleep Mode	20uA

PD302C Fingerprint Module



Technical Drawing



PD302C Fingerprint Module



Protocol Communication

Pin No↵	Signal Name↵	Signal description↵	Explanation↵
1↵	Wake↵	detect finerprint signal and output high level↵	As MCU signal of wake up↵
2↵	Tx↵	Transmitter↵	UART ↵ 3.3V TTL ↵
3↵	Rx↵	Receiver ↵	
4↵	GND↵	Input power -↵	Input voltage range: ↵ DC3.3V-6V↵
5↵	VIN↵	Input Power +↵	
6↵	TouchVin↵	Touch IC power input↵	Input voltage 3.3V↵
7↵	USB-DN↵	USB D-↵	USB communication↵
8↵	USB-DP↵	USB D+↵	

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