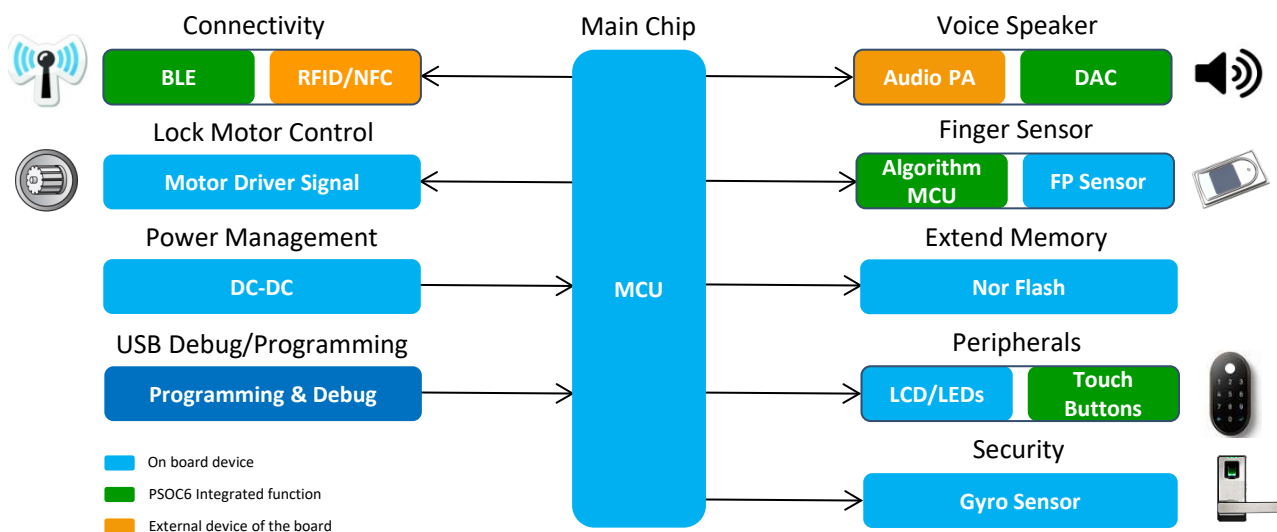




Zenitron Smart Lock Evaluation Kit



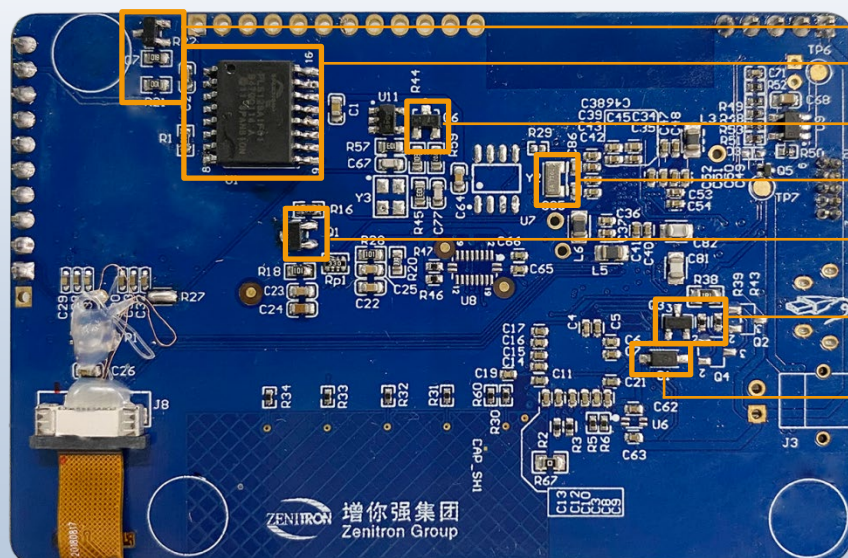
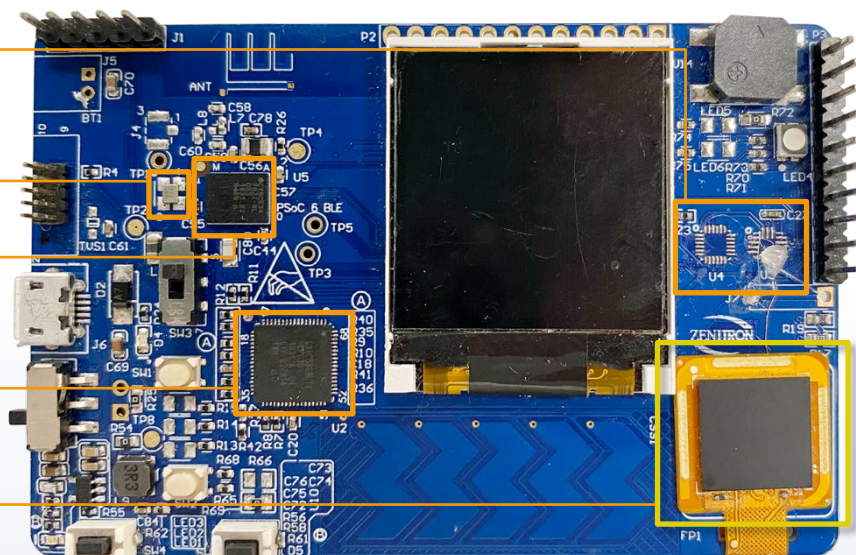
TDK InvenSense
ICM-20600/MPU-6500

DIODES
US3200014

Infineon
CY8C6347BZI-BLD53

Infineon
CY8C5868LTI-LP039

Infineon
CY9393



DIODES
MMBT3904

Infineon
S25FL512SAGMFI011

VISHAY
SI2301CDS-T1-E3

DIODES
G8327A038

DIODES
MMBT3904

DIODES
DMP3098L-7

DIODES
BZT52C3V9-7-F



Zenitron Smart Lock Evaluation Kit

Solution Feature Description

- Small size: 9cm*5.5cm
- Ultra low power consumption (Standby mode <13.5uA operation current)
- Enable security boot, data and communication security
- Run FP sensor algorithm (IDH support)
- Support up to 1G external memory size
- Motor control firmware support DC, BLDC (Sample code)
- Integrate DAC for Audio amp IC (External component)
- 6-axis Motion Tracking sensor support security function and wearable device.
- Highest integration:
 - Blue Low Energy
 - Real Time Clock
 - Capsense, 1.44" TFT display
 - 512Mb Nor flash memory
 - 3-axis gyroscope & 3-axis accelerometer

Specification Description

- Power supply: Micro-B USB 5V
- FP sensor resolution: 192*192 pixel
- TFT LCD size and interface: 1.44" with SPI
- Bluetooth: BLE 5.0
- MCU Integrate: SL NAND Flash 1MB
- External 512MB Nor Flash
- 6-axis Motion Tracking sensor:
 - 3-axis gyroscope (full-scale range of ± 250 , ± 500 , ± 1000 , and ± 2000 degrees/sec)
 - 3-axis accelerometer (full scale range of $\pm 2g$, $\pm 4g$, $\pm 8g$ and $\pm 16g$)

Block	Vendor	Part number	Description
Main chip		CY8C6347BZI-BLD53	PSOC6 (M4&M0+ Dual core MCU) + BLE + Capsense touch + FP algorithm
Connectivity		CY8C5868LTI-LP039	PSOC5 for debugging and programming
Extend Memory		S25FL512SAGMFI011	Expand 512Mb Nor flash memory
Finger Sensor		CY9393	192*192 finger printer sensor
Power Management		DMP3098L-7	FET, MOSFET, PCHNL, 30V, 3.8A, 1.08W, SOT-23
		BZT52C3V9-7-F	DIODE, ZENER, 3.9V, 500MW, SOD123
		US3200014	32.000 MHZ Crystal
		G8327A038	32.768KHZ Crystal
		MMBT3904	Transistor, NPN
		SI2301CDS-T1-E3	FET, MOSFET, PCHNL SOT-23
Security		ICM-20600/MPU-6500	6-axis Motion Tracking sensor: 3-axis gyroscope & 3-axis accelerometer

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