



Zenitron Sensor Medal Module



Crystal

DIODES
INCORPORATED

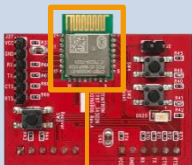
WIFI+BT

8/32 bit
MCU

Multi-Sensor

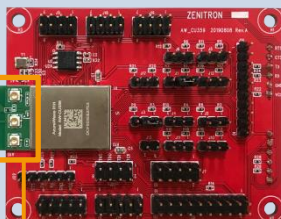


BT



CYBT-343026

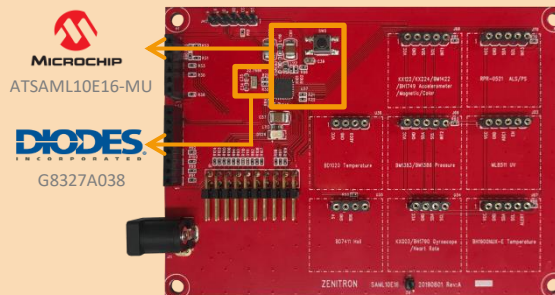
WIFI+BT



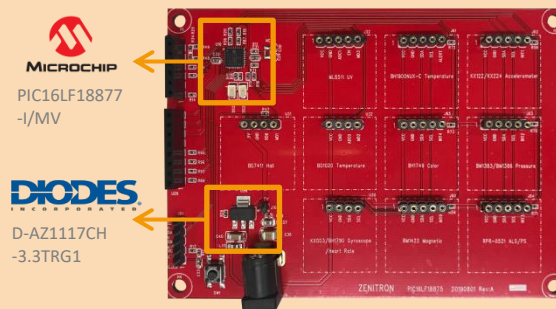
AW_CU359



32 bit MCU



8 bit MCU



Geomagnetic
Sensor Module

• BM1422AGMV



Barometric
Pressure Module

• BM1383AGLV



Ambient Light Sensor
and Proximity Sensor
Module

• RPR-0521RS



Color Sensor
Module

• BH1749NUC



Accelerometer
Module

• KX224-1053



Temperature
Sensor Module

• BD1020HFV



Hall Effect
Sensor Module

• BD7411G



Heart Rate
Sensor Module

• BH1790GLC





Zenitron Sensor Medal Module

Solution Feature description

- Input voltage : 1.8 to 3.6V
- Wireless interface : BT + WIFI
- Sensor board :
- Gyroscope/Heart Rate/
- Accelerometer/Magnetic/Color/Hall/UV/ALS/PS/
- Pressure/Temperature

Specification description

- Application voltage : 1.8 to 3.6V
- BT module throughput : 1Mbps
- BT module current : under 55 mA
- WIFI : Dual band 802.11 a/b/g/n/ac
- WIFI Single-stream spatial multiplexing throughput : 150 Mbps
- Sensor module current : under 0.2 mA
- Operation temperature range: -40° to +85° C

BLOCK	Vendor	Part number	Description
MCU	 a MICROCHIP company	PIC16LF18877-I/MV	8 bit MCU
		ATSAML10E16A-MU	32 bit MCU
BT	 EMBEDDED IN TOMORROW	CYBT-343026	BT module
BT+WIFI	 AzureWave Technologies, Inc.	AW_CU359	BT+WIFI combo module
Crystal	 INCORPORATED	G8327A038	32.768K Hz crystal
DC to DC	 INCORPORATED	D-AZ1117CH-3.3TRG1	3.3V LDO
Sensor	 SEMICONDUCTOR	BM1422AGMV	Geomagnetic Sensor
		BM1383AGLV	Pressure Sensor
		RPR-0521RS	Ambient Light Sensor and Proximity Sensor
		BH1749NUC	Color Sensor
		KX224-1053	Accelerometer Sensor
		BD1020HFV	Temperature Sensor
		BD7411G	Hall Effect Sensor
		BH1790GLC	Heart Rate Sensor

Contact Us

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