

# Compal Confidential

## Sensor Board Schematic

LS-E293P

Rev:0.1

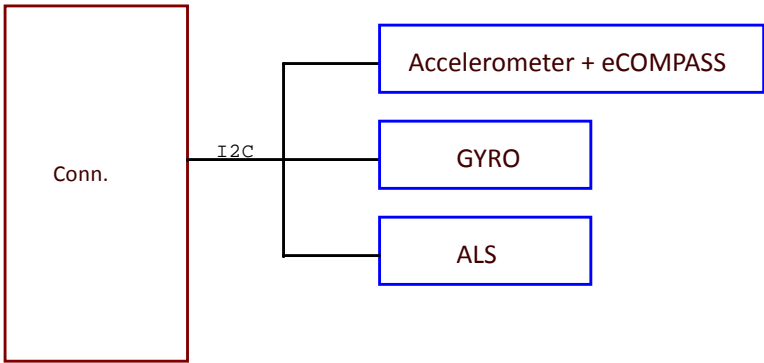
2016-XX-XX




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				Custom   LS-E293P	1.0
				Date: Tuesday, April 26, 2016	Sheet 1 of 3

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MODEL NAME: Storm

PCB NAME: LS-E293P



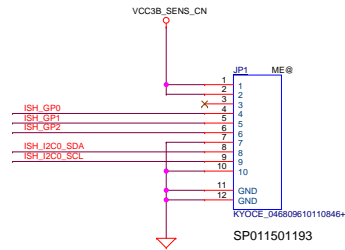
-  Component
-  External Connector
-  Internal Connector

**BOM Structure Table**

BTO Item	BOM Structure
Connector	ME@
Unpop	@

ZZZ1PCB®  
LS-E293P  
DA\_PCB  
DA6001NI000

P/N: SP011501193



FD1  NC, NO CONNECT TO ANY.

FD2  NC, NO CONNECT TO ANY.

FD3  NC, NO CONNECT TO ANY.

TP\_A1  
TESTPIN\_1P0X1P3N

TP\_A2  
TESTPIN\_1P0N

```
Gyro I2C address: 0x68
```

8	SDO	GND for default addr
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VCC3B\_SENS\_CN

R155  
10k0201\_5%

C100  
1u\_0402\_6.3V6K

ISL2903SIR02L7\_0DFN6\_1P5X1P6

SA00007CK000

ALS I2C address: 0x88

```
ALS I2C address: 0x88
```

The schematic diagram illustrates the connection between the sensor module and the microcontroller. The sensor chip, labeled BME280, has pins 1 through 10. The microcontroller, labeled STM32F103C8T6, has pins 11 through 4. The connections are as follows:

- VCC3B\_SENS\_CN is connected to VDD.
- GND is connected to GND.
- SDA is connected to SDA.
- SCL is connected to SCL.
- INT# is connected to INT#.
- The sensor chip pin 1 is connected to VDD.
- The sensor chip pin 2 is connected to GND.
- The microcontroller pin 11 is connected to VDD.
- The microcontroller pin 10 is connected to DRDY.
- The microcontroller pin 9 is connected to CSB.
- The microcontroller pin 8 is connected to GND.
- The microcontroller pin 4 is connected to GND.

The sensor chip is also connected to a 100k resistor and a 100nF capacitor. The microcontroller is connected to a 100k resistor and a 100nF capacitor.

CBS PIN	SDO PIN	Accelerometer Part I2C address	Magnetometer Part I2C address
VDDIO	GND	0x10	0x12

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				Date:	Tuesday, April 26, 2016	Sheet 3 of 3