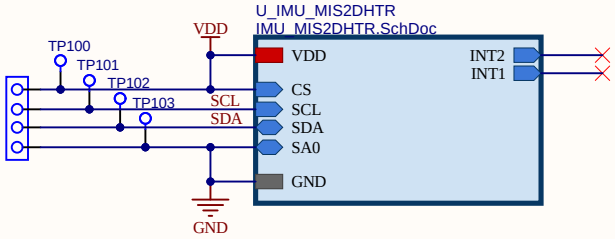
XLBoard- External IPG Accelerometer

MIS2DHTR I2C Accelerometer

Testpoints:
- TP100: CS-VDD
- TP101: SCL
- TP102: SDA
- TP103: SA0-GND



Unused interrupts.

Mechanical requirements related to the connection and interface with leads on the board:

- Type of Soldering: Lead-to-PCB connection should be Through-Hole Technology (THT).

- Number of Lines: 4.

- Hole Diameter: 20mil.

- Additional Mechanical Mounting Information: TBD.

I2C mode selection:

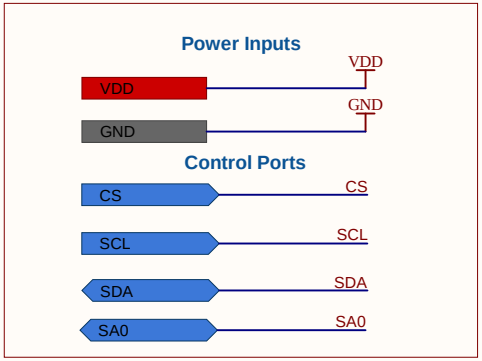
CS: I2C communication enabled
SA0: I2C less significant bit of the device address
SDA: I2C serial data
SCL: Clock frequency

The Slave Address (SAD) associated to the MIS2DH is 001100xb.

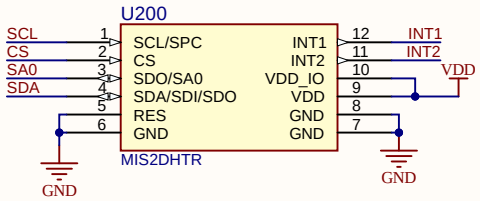
If the SA0 pad is connected to ground, the LSB value is '0' (address 0011000b).

FOCUS	Project: Hornet / XL Board	
Schematic: XLBoard		Version: 1.0
Design by: Martina Barreiro		Date: *
Reviewed by:		Date:
Comments:		

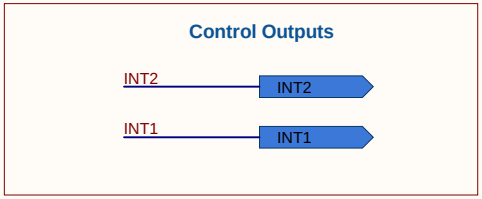
XLBoard- External IPG Accelerometer



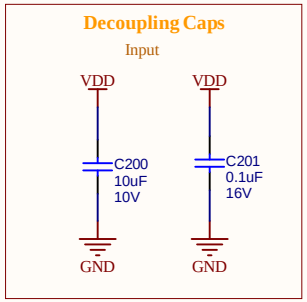
MIS2DHTR Accelerometer



The threshold and timing of the two interrupt pins (INT1 and INT2) can be programmed by the user through the I2C/SPI interface.



The Slave Address (SAD) associated to the MIS2DH is 001100xb.
The SDO/SA0 pin can be used to modify the less significant bit of the address.
If the SA0 pad is connected to the voltage supply, LSB is '1' (address 0011001b), else if it is connected to ground, the LSB value is '0' (address 0011000b).



I2C/SPI mode selection with pin CS:
1: SPI idle mode / I2C communication enabled
0: SPI communication mode / I2C disable

SDO: SPI serial data output (SDO)
SA0: I2C less significant bit of the device address (SA0)

SDA: I2C serial data (SDA)
SDI: SPI serial data input (SDI)
SDO: 3-wire interface serial data output (SDO)

FOCUS	Project: Hornet / XL Board
Schematic: IMU	Version: 1
Design by: Martina Barreiro	Date: *
Reviewed by:	Date:
Comments:	