

# KAMAMI

## KAmoMPL3115A2





# KAMAMI



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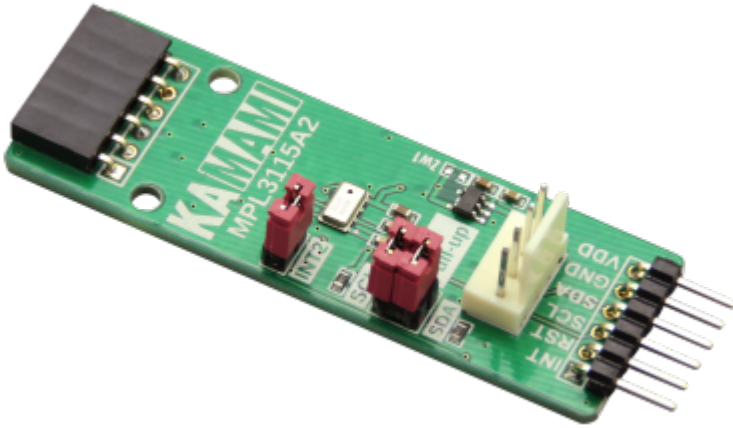
Zdroj: <http://wiki.kamami.pl/index.php/KAModMPL3115A2>

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## Description

[KAmoMPL3115A2](#) is a module with an atmospheric pressure sensor MPL3115A2 from NXP. The board is equipped with a Pmod I2C standard connector and a KAMAMI connector, that allow to easy connection of the module to the evaluation kits. Due to its small dimensions, the product can be used in many development projects, while the Pmod connector allows to connect the boards in the series.



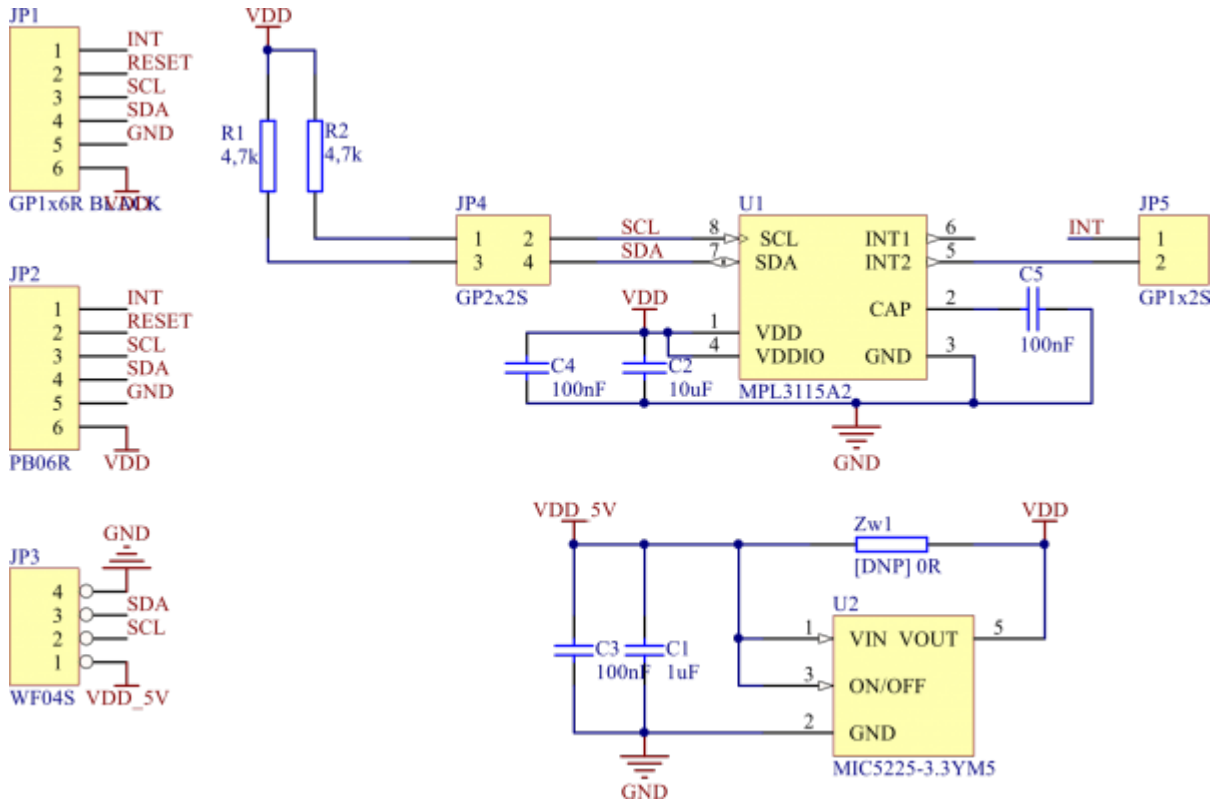
## Basic features and parameters

- MPL3115A2 chip from NXP
  - Pressure measurement in the range of 200...1100hPa (20...110kPa)
  - Temperature measurement in the range -40...+85 °C
  - I2C bus
  - Programmable interrupt output
  - FIFO queue with a buffer of 32 samples
  - Measurement period: from 1 second to 9 hours
  - The ability to measure height
- Connector compatible with the Pmod standard, allows serial connection of Pmod I2C modules
- The connector complies with the KAMAMI standard
- Embedded jumpers activating pull-up on I2C bus lines
- Embedded jumper connecting the INT line of the chip to the INT line of Pmod connectors
- Possibility to supply voltage from 2.1...3.6V through Pmod connector and 2.1...5.5V through KAMAMI connector
- Mounting holes with a diameter of 2.5mm
- Dimensions: 61.2mm x 20.3mm x 10mm

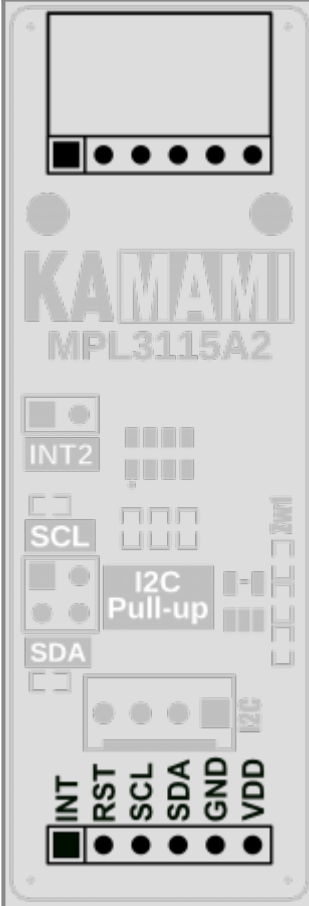
## Standard equipment

Code	Description
<b>KAmoMPL3115A2</b>	• Assembled and launched module

## Electrical schematics



## Output description - Pmod standard connector

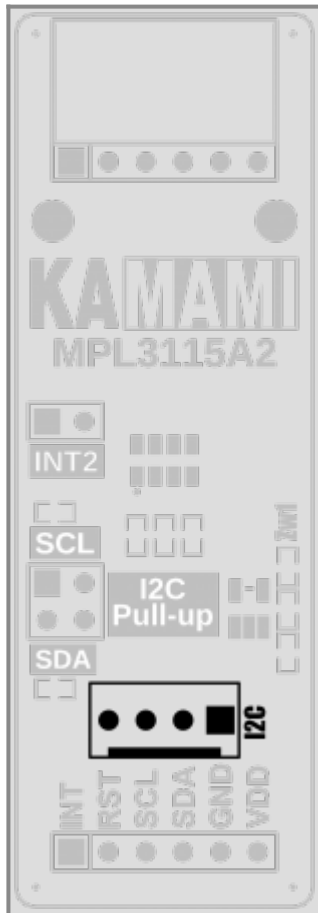


The diagram shows the KAMAMI MPL3115A2 module with a Pmod standard connector. The connector has six pins labeled from left to right: INT (black square), RST (black circle), SCL (black circle), SDA (black circle), GND (black circle), and VDD (black circle). The module also features an I2C Pull-up resistor and an INT2 pin.

JP1 (male connector)	JP2 (female connector)	Function
VDD	VDD	Power supply of module (max. 3,6 V)
GND	GND	
SDA	SDA	Data line of I2C bus
SCL	SCL	Clock line of I2C bus
RST	RST	-
INT	INT	Interrupt line INT2

## Output description - KAMAMI standard connector

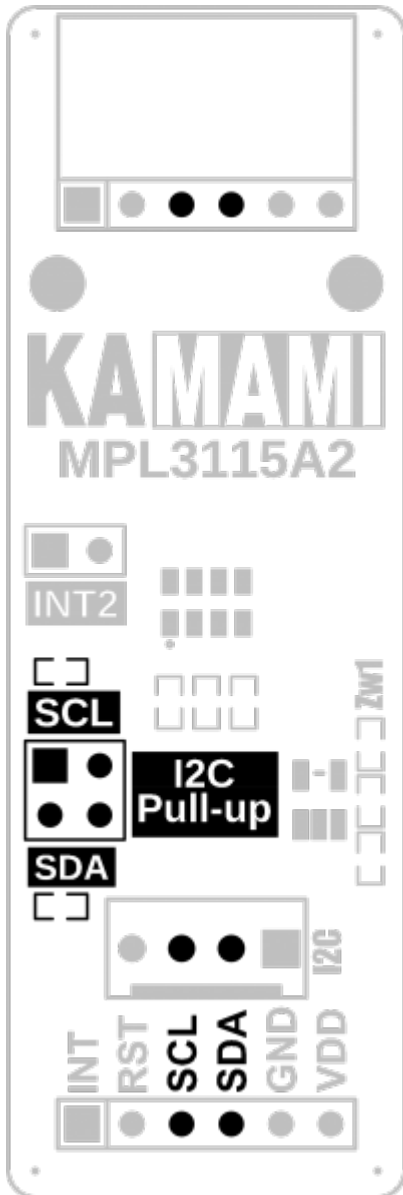
Pin number	Function
1 (VDD_5V)	Power supply of module (max. 5,5 V)
2 (SCL)	Clock line of I2C bus
3 (SDA)	Data line of I2C bus
4 (GND)	Ground





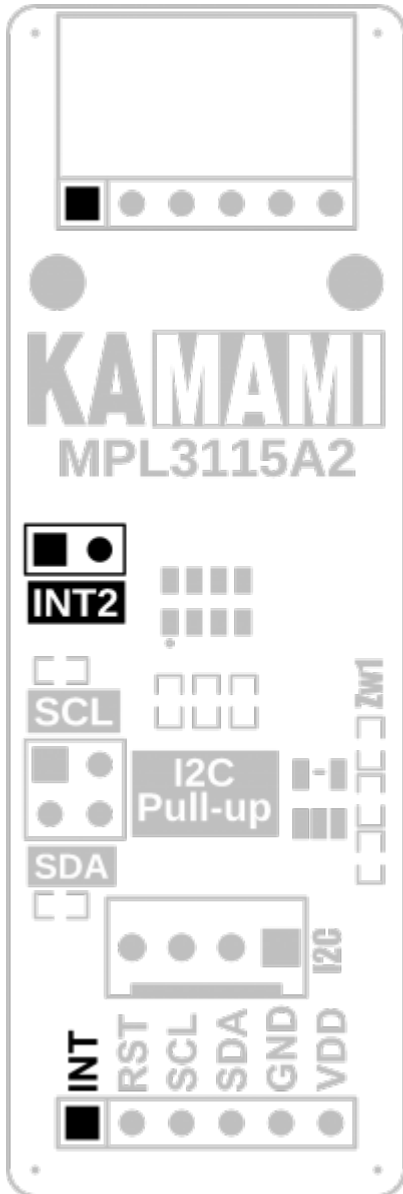
## I2C bus lines

The KAmoMPL3115A2 module is equipped with jumpers allowing to connect pull-up resistors to the positive power pole to the I2C bus line. The jumpers give the possibility of independent enabled of the pull-up for the SDA and SCL lines.

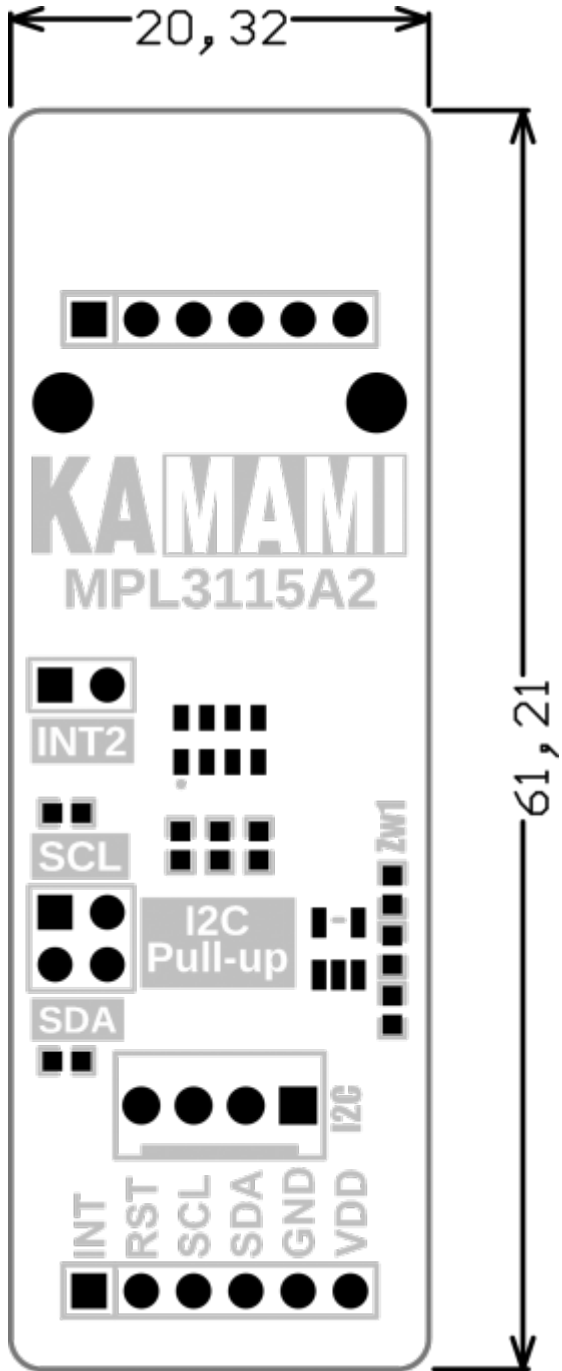


## Interrupt line INT2

The KAmoMPL3115A2 module has been equipped with a jumper enabling connection of the INT2 interrupt output line to the Pmod compatible connector. Thanks to the possibility of disconnecting the MPL3115A2 interrupt line from Pmod connectors, the user does not have to worry about the consequences of possible conflicts resulting from the connection of Pmod-compatible module modules with different logic states.



## Dimensions



## External links

- [Datasheet of MPL3115A2 chip from NXP](#)



Zastrzegamy prawo do wprowadzania zmian bez uprzedzenia.

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