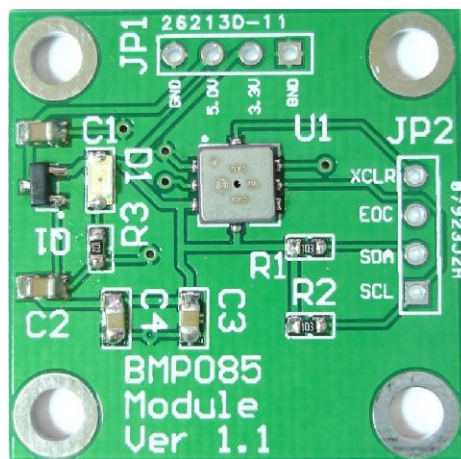


BMP085 Module

Digital Pressure Sensor



PRODUCT SPECIFICATION

Version 1.1

Document Release	Date	Modification	Author
Version 1.1	2011/10/19	Initial Version	CDPDA Howard

Introduction

The BMP085 Module is a high-precision, low-power barometric pressure sensor. The BMP085 offers a measuring range of 300 to 1100 hPa with an absolute accuracy of down to 0.03 hPa. It's based on piezo-resistive technology for EMC robustness, high accuracy and linearity as well as long term stability. This sensor supports a voltage supply between 1.8 and 3.6VDC. It is designed to be connected directly to a micro-controller via the I²C bus.

Product Features

- I I2c Interface
- I Temperature measurement included
- I 300...1100hPa (+9000m ... -500m above sea level)
- I Support 3.3V ~5V
- I Build in ultra low noise linear LDO voltage regulator
- I Designed for 3.3V logic level

Dimensions

- I 30mm x 30mm

Typical applications

- I Enhancement of GPS navigation
- I In – and out-door navigation
- I Leisure and sports
- I Weather forecast

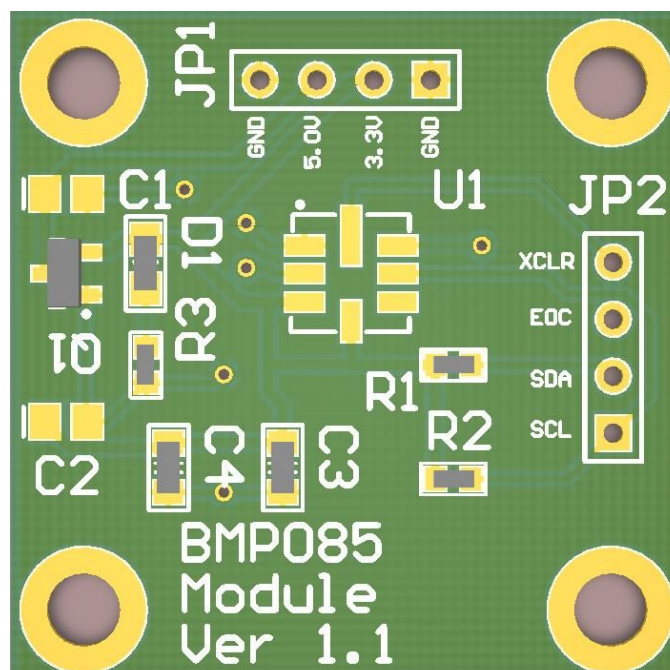
Product Specification

Main Chipset	BMP085
Pressure range	300 ... 1100hPa
Supply voltage	3.3V ~ 5V
Conversion Time	7.5ms (max)
I2c data transfer	3.4MHz(max)
Low power	5 uA at 1 sample / sec in standard mode

Environment Requirements

	Operating
Temperature	-40°C to +85°C
Humidity	10% to 90%

Pin Assignment of connector



JP1	Description
GND	Digital Ground
5.0V	Digital Voltage (3.3V ~ 5V)
3.3V	Digital Voltage (3.3V only)
GND	Digital Ground

JP2	Description
XCLR	Master clear (low active)
EOC	End of conversion
SDA	I2C serial data
SCL	I2C serial clock