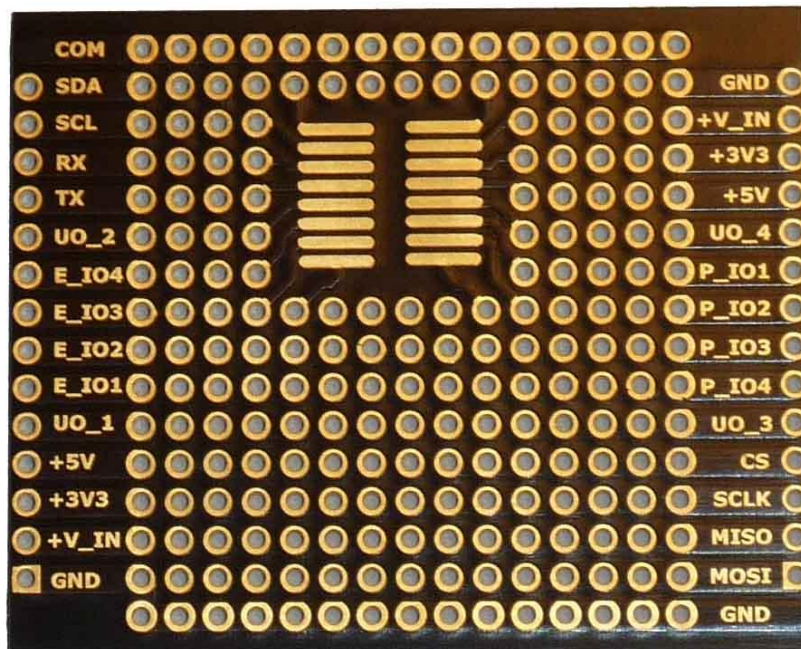


PiGo™

www.DesignSpark.com/PiGo

Modular Expansion System for Raspberry Pi Prototyping module

User manual



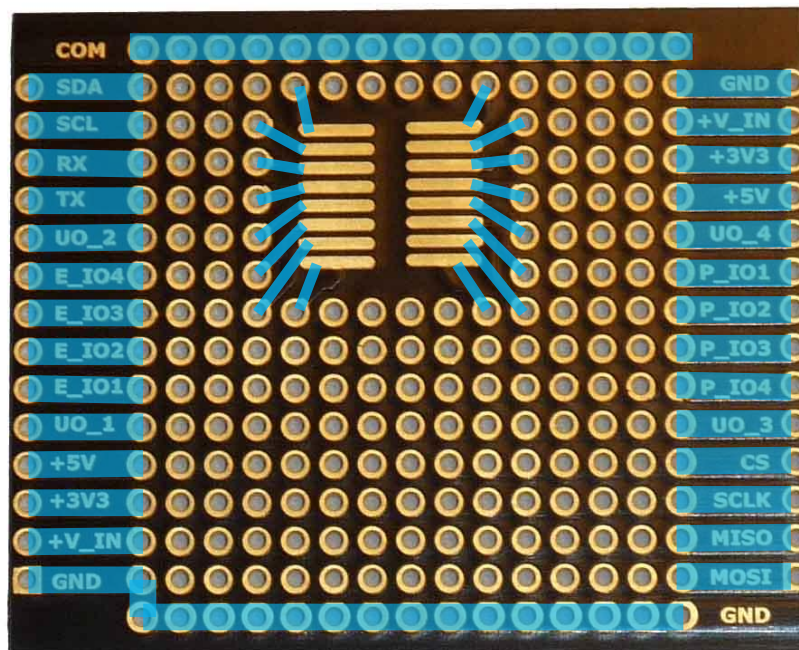
Overview

PiGo prototyping module is a module that can be attached to any of the PiGo module sockets (A, B, C or D). Module contains a grid of 15x16 metalized holes with a land pattern for a SO-16 SMD IC or smaller.

Architecture and physical specification

PiGo prototyping module layout – top side

The following schematics shows the prototyping board layout with highlighted connections on board.



Module connectors

PiGo motor module can be attached to any of the PiGo module sockets (A, B, C or D). It has the following connections:

Left socket		Right socket	
Pi _{SDA}	SDA	Power Supply ground	GND
Pi _{SCL}	SCL	Raspberry DC power supply	V _{IN}
Pi _{RX}	RX	3.3 V power supply	V _{3.3 V}
Pi _{TX}	TX	V _{5 V} power supply	V _{5 V}
U _{IO2A/B/C/D}	User IO 2	User IO 3	U _{IO3A/B/C/D}
EXT10/12/14/16	Ext IO	IO	P _{IO1A/B/C/D}
EXT9/11/13/15	Ext IO	IO	P _{IO2A/B/C/D}
EXT2/4/6/8	Ext IO	IO	P _{IO3A/B/C/D}
EXT1/3/5/7	Ext IO	IO	P _{IO4A/B/C/D}
U _{IO1A/B/C/D}	User IO 1	User IO 4	U _{IO4A/B/C/D}
V _{5 V}	Same as V _{5 V} right	SPI CS	CS _{A/B/C/D}
V _{3.3 V}	Same as V _{3.3 V} right	SPI SCLK	Pi _{SCLK}
V _{IN}	Same as V _{IN} right	SPI MISO	Pi _{MISO}
GND	Same as GND right	SPI MOSI	Pi _{MOSI}

Module usage

PiGo motor module can be accessed using the basic PiGoBoard class from the PiGo Python library. This class gives access to serial communication, IO operations, SPI and I²C buses.

Frequently asked questions

None yet

