

Base15 v1.1

SKU: K025-B



Description

Base15 v1.1 is a universal functional base designed for the "5 x 5cm system." The product has a thickness of 15 mm (excluding the bus pin header section) and includes a 9 ~ 24V to 5V DC/DC circuit, two customizable Grove expansion ports, and a central 2.54mm spaced perforated board area on the PCB, allowing users to add custom circuit functionalities. The structure offers multiple mounting options, supporting DIN rail, wall mounting, screw fixing, and bottom M12 connector fixing.

Features

- Built-in 9-24V to 5V DC/DC circuit
- DIN rail, wall mounting, screw, and M12 fixing options
- 2.54mm perforated board
- Includes 2 Grove expansion ports
- Customizable circuit additions

Includes

- 1 x Base15 V1.1 Proto Board
- 1 x Base15 V1.1 Base Enclosure
- 2 x HY2.0-4P Terminal
- 1 x Hex Key L-Shape 1.5mm
- 1 x Hex Key L-Shape 2.0mm
- 1 x Hex Key L-Shape 2.5mm
- 1 x 35mm Silver Metal DIN Rail
- 1 x 35mm Black DIN Rail Clip
- 2 x M3 * 8mm countersunk head machine screw
- 2 x M3 * 22mm cap head machine screw
- 2 x M3 * 25mm cap head machine screw
- 2 x M3 * 28mm cap head machine screw
- 2 x M3 * 30mm cap head machine screw
- 4 x M2 * 5mm cap head self-tapping screw
- 2 x M3 Nut (with anti-slip nylon insert)
- 1 x Product Sticker

Applications

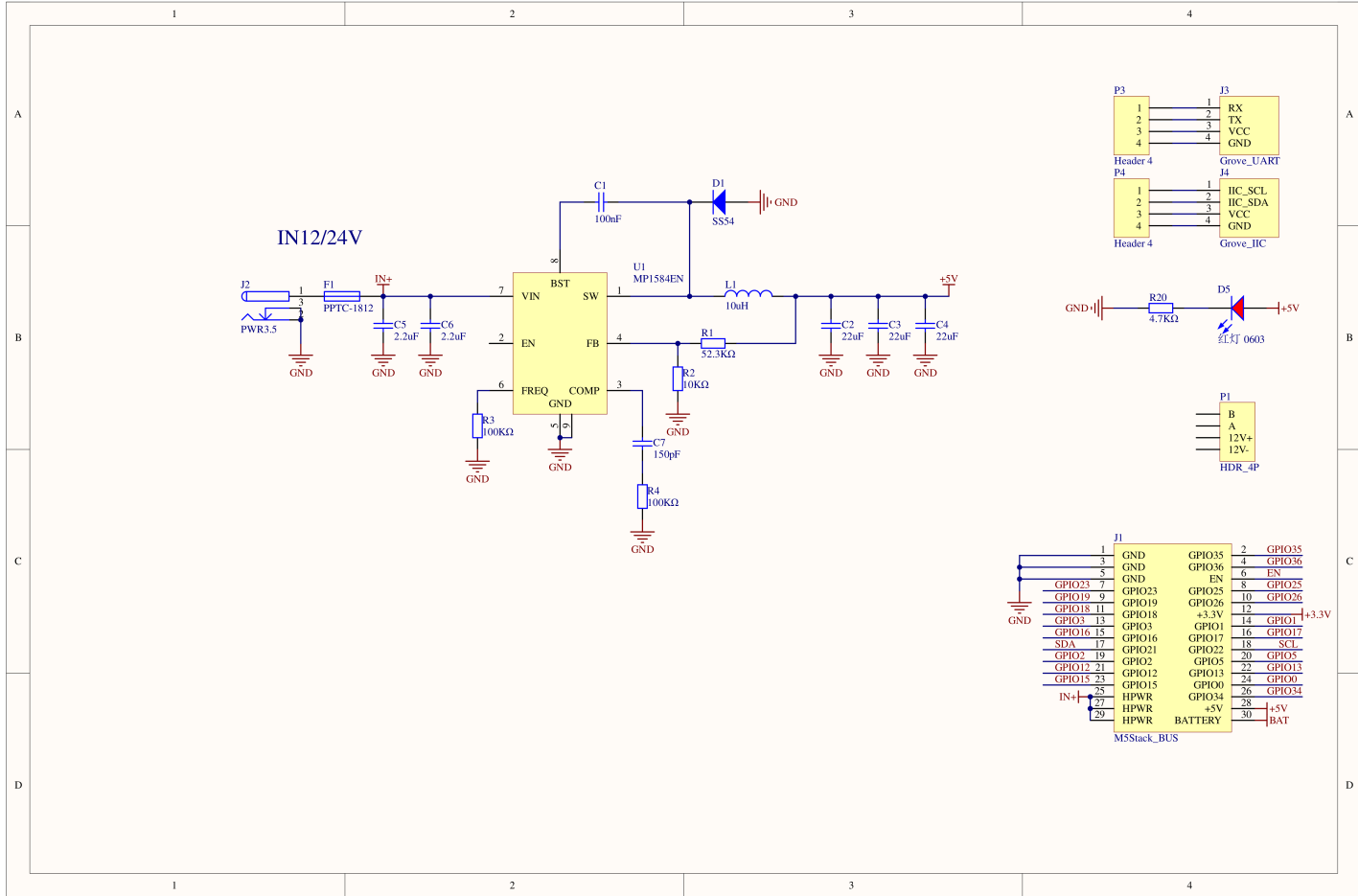
- Functional prototype development

Specifications

Specification	Parameter
DC-DC Converter Chip	MP1584
Input Voltage Range	9-24V
Continuous Output Current	2A
Output Voltage	5V
Product Size	54 × 54 × 28mm
Package Size	105 × 65 × 40mm
Product Weight	27.1g
Gross Weight	133.7g

Schematics

- [Base15 v1.1 Schematics PDF](#)



M5-Bus

PIN	LEFT	RIGHT	PIN
GND	1	2	
GND	3	4	
GND	5	6	EN
	7	8	
	9	10	
	11	12	3.3V
	13	14	
	15	16	
SDA	17	18	SCL
	19	20	
	21	22	
	23	24	
HPWR(IN+)	25	26	
HPWR(IN+)	27	28	5V
HPWR(IN+)	29	30	BAT

Datasheets

- [MP1584](#)