

Base Dual 16340

SKU:A179





Description

Base Dual 16340 is a compact battery base module for M5Stack controllers that supports two 16340 rechargeable cells in parallel to provide stable battery power to the main system. The module integrates power-path management, power-switch control, overcurrent and reverse-polarity protection, and battery status monitoring, helping to monitor voltage, current, and power in real time for power-management and energy-analysis tasks.

Inside the module is an INA226 current and voltage monitoring chip that communicates with the host through an I2C interface. It also provides two Grove expansion interfaces, making it easy to connect various sensors and peripheral modules for battery expansion of M5Stack devices or standalone embedded applications.

Features

- Battery base module for M5Stack controllers
- Supports two 16340 rechargeable batteries
- Power supply can be turned on/off by switch
- Built-in overcurrent and reverse-polarity protection for improved reliability
- Integrated INA226 current/voltage monitor chip for real-time battery state monitoring
- Two Grove expansion interfaces for flexible sensor and peripheral connections

Includes

- 1 x Base Dual 16340

- 2 x 16340 rechargeable batteries

Applications

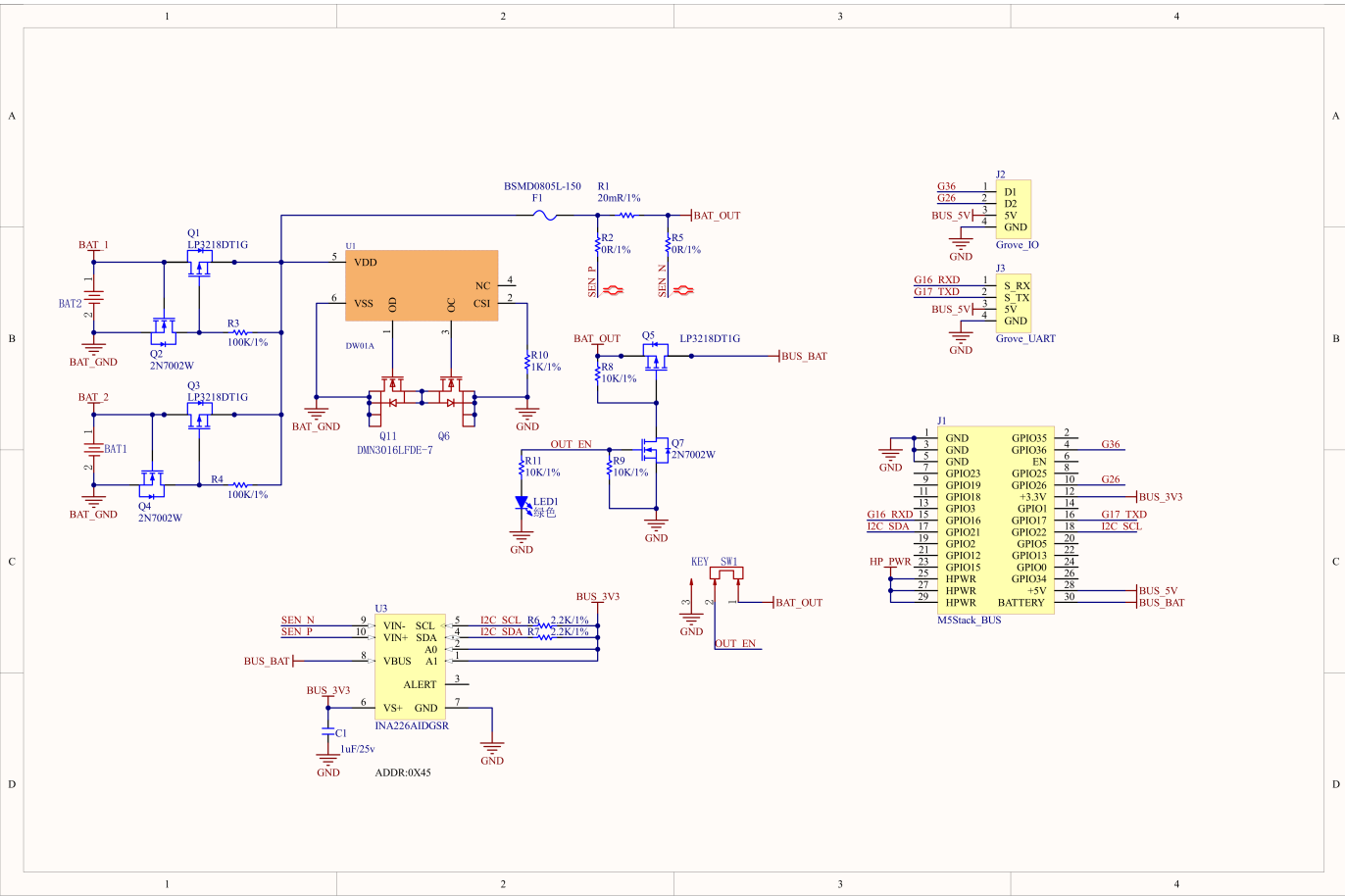
- M5Stack battery expansion
- Standalone battery supply for embedded systems
- Power and energy management
- Portable equipment power solutions

Specifications

Specification	Parameter
Power Monitor Chip	INA226
Battery Protection IC	DW01A
Battery Type	16340 rechargeable lithium battery
Battery Capacity	2 x 700mAh
Battery Electrical Spec	Rated Capacity: 700mAh Rated Voltage: DC 3.7V Charge Cutoff Voltage: DC 4.2±0.03V (Temperature 0°C~+45°C) Standard Charge Current: 0.2C (Temperature 0°C~+45°C) Standard Discharge Current: 0.2C (Temperature -20°C~+60°C) Max Discharge Current: 3.0C (Discharge cutoff voltage DC 2.75V)
Power Control	Slide switch
Grove Interface Spec	2 x HY2.0-4P
Standby Power	(Power switch on, no host connected) No battery: DC 4.2V@1.10mA With battery: DC 4.2V@33.41mA
Operating Temperature	0 ~ 40°C
Product Size	54.0 x 54.0 x 21.0mm
Product Weight	66.4g
Package Size	66.0 x 50.0 x 31.0mm
Gross Weight	83.5g

Schematics

o [Base Dual 16340 Schematic PDF](#)



Pin Map

M5-Bus

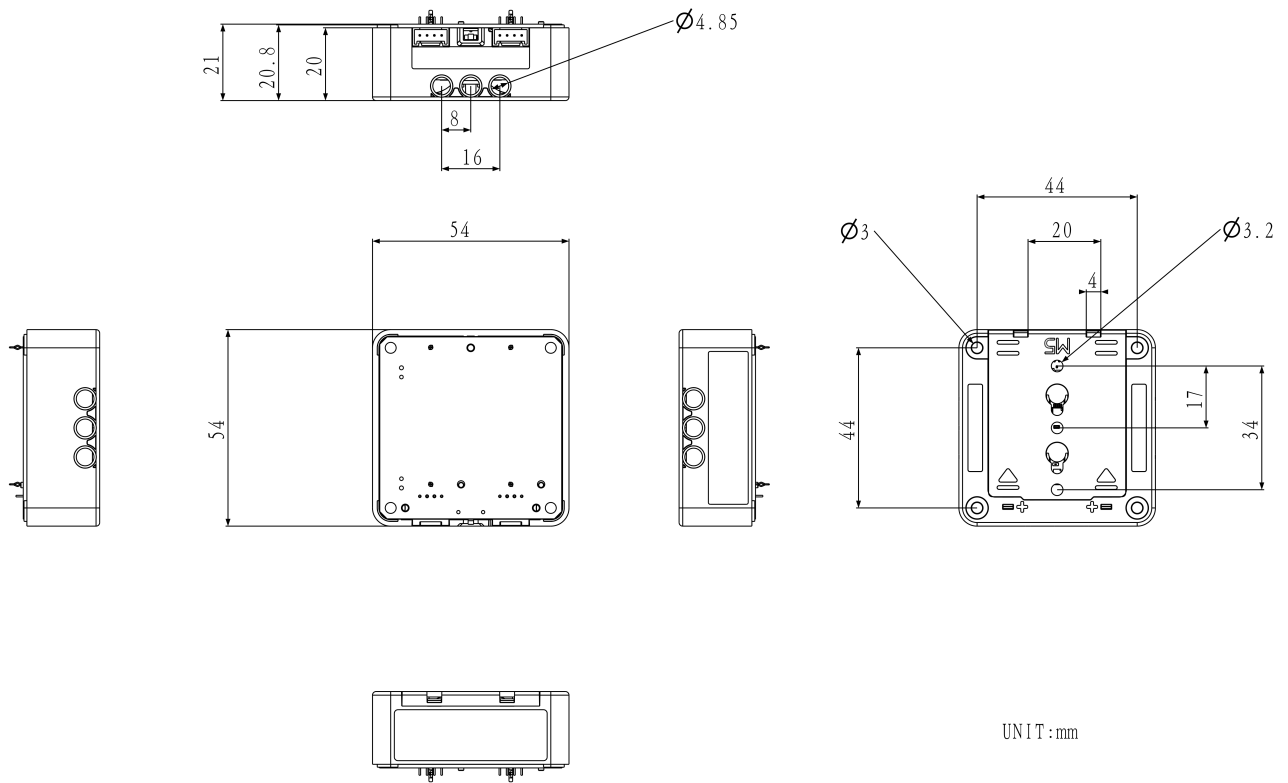
PIN	LEFT	RIGHT	PIN
GND	1	2	
GND	3	4	PORT.B INPUT
GND	5	6	
	7	8	PORT.B OUTPUT
	9	10	
	11	12	3V3
	13	14	
RXD	15	16	TXD
INA_SDA	17	18	INA_SCL
	19	20	
	21	22	
	23	24	
HPWR	25	26	
HPWR	27	28	5V
HPWR	29	30	BAT

HY2.0-4P

HY2.0-4P	Black	Red	Yellow	White
PORT.B	GND	5V	PORT.B OUTPUT	PORT.B INPUT
PORT.C	GND	5V	TXD	RXD

Model Size

- [Base Dual 16340 Model Size PDF](#)



Softwares

Arduino

- [Base Dual 16340 Arduino Quick Start](#)

Videos

- [Introduction and Function Demonstration of Base Dual 16340](#)

[A179_Base_Dual_16340_video_EN.mp4](#)