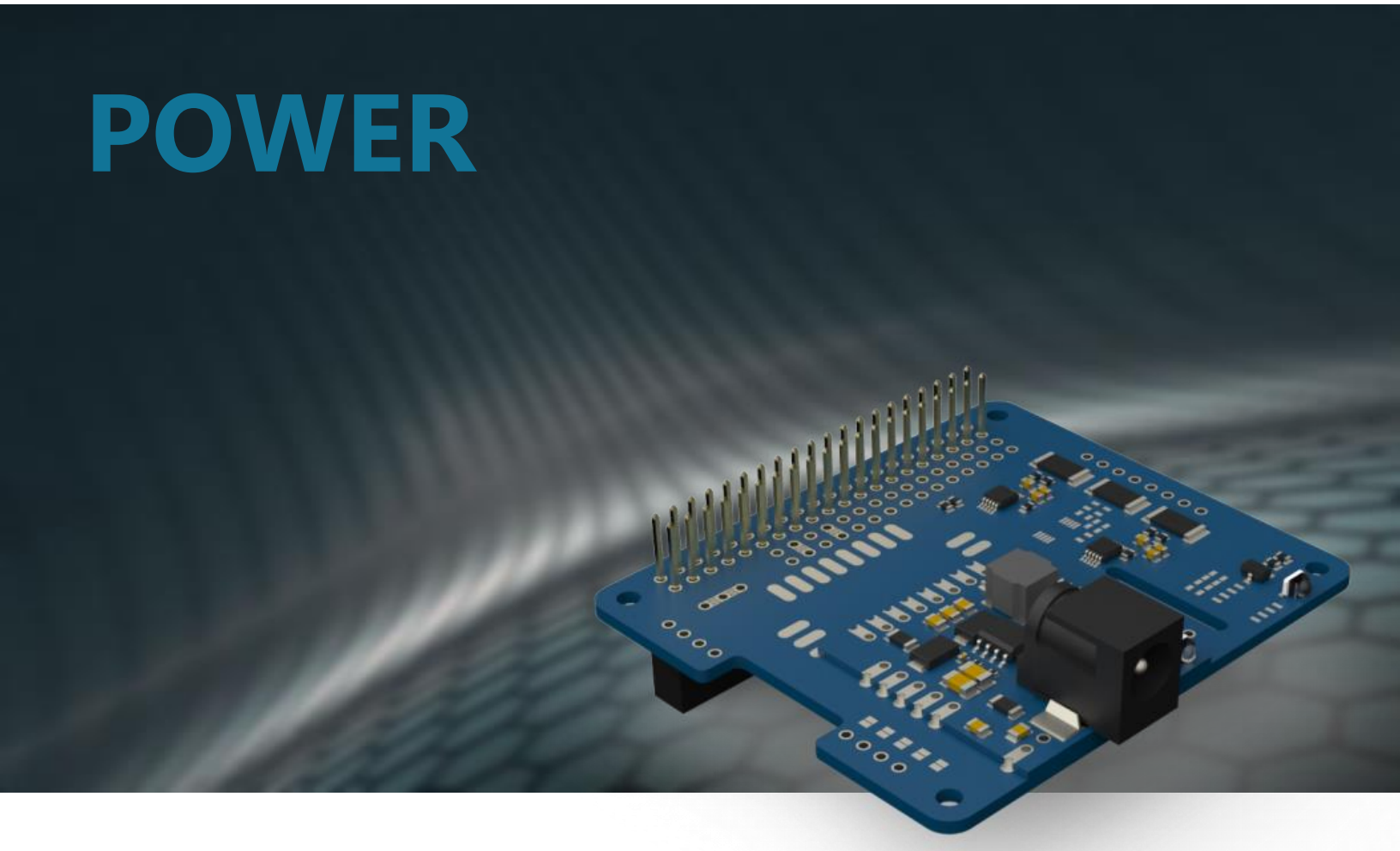
MadeSytems™

POWER



One stackable power supply module for countless SBC configurations. This module is the power foundation for creating a multitude of stacked add-on SBC module configurations.

- Dual or Triple output tap power module
- Enough power for the SBC and other add-on modules
- Stackable Made Systems symmetrical power bus
- Selectable power configurations
- Independent power monitoring for each output
- I^2C bus interface for power monitoring interface
- Standard Raspberry PI® 40 pin header pinout
- Uses < 10mA at 3.3V which can be sourced by SBC or internally
- Indicator LED connected to pin 22 GPIO25

SPECIFICATIONS

Input Vin	9 – 36 (Vdc)
Input Interface	2.1 x 5.5 mm center positive DC barrel jack
Outputs	3.3 (Vdc) @ 800 (mA) [1, 2] – power bus port 0 - LDO 5V input 5.0 (Vdc) @ 2/3.5 (A) – power bus port 1 - TI LMR14020/050 switch mode power VO (direct connect to Vin) – power bus port 2
Power	2 (mA_{max}) @ 3.3 Vdc
Communication Interface	I^2C bus (Raspberry Pi® header pins 3 GPIO02 & 5 GPIO03)
Power Monitoring	INA226 Current and Power Monitor IC Vo (Vdc) I^2C addr 0x40 5.0 (Vdc) I^2C addr 0x41 3.3 (Vdc) I^2C addr 0x44
Operating Temp	0 °C to +50 °C Ambient
Width	56.0 (2.20 in)
Length	65.0 (2.56 in)
Height	13.7 (0.54 in)
Mounting	Tall connector (16 mm standoffs)

1 Not available on 10W models
2 LDO supplied by 5V power source

ORDERING

ORDER NO.	POWER	OUTPUTS	POWER SUPPLY
PWRM17225 – 10W *	10 W	5V @ 2 (A), VO @ 4 (A_{max})	PWRS17227
PWRM17225 – 17W *	17.5 W	5V @ 3.5 (A), 3.3V @ 800 (mA), VO @ 4 (A_{max})	PWRS17216

* includes 2x20 pin Tall Female Header Connector & 8 pin Male Header Connector