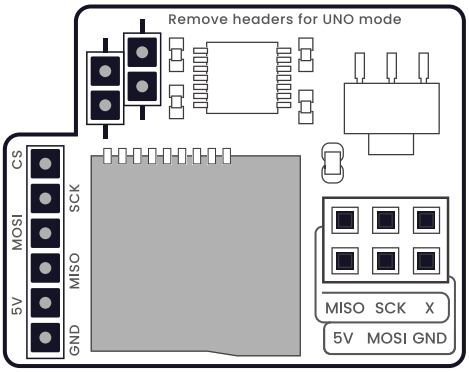
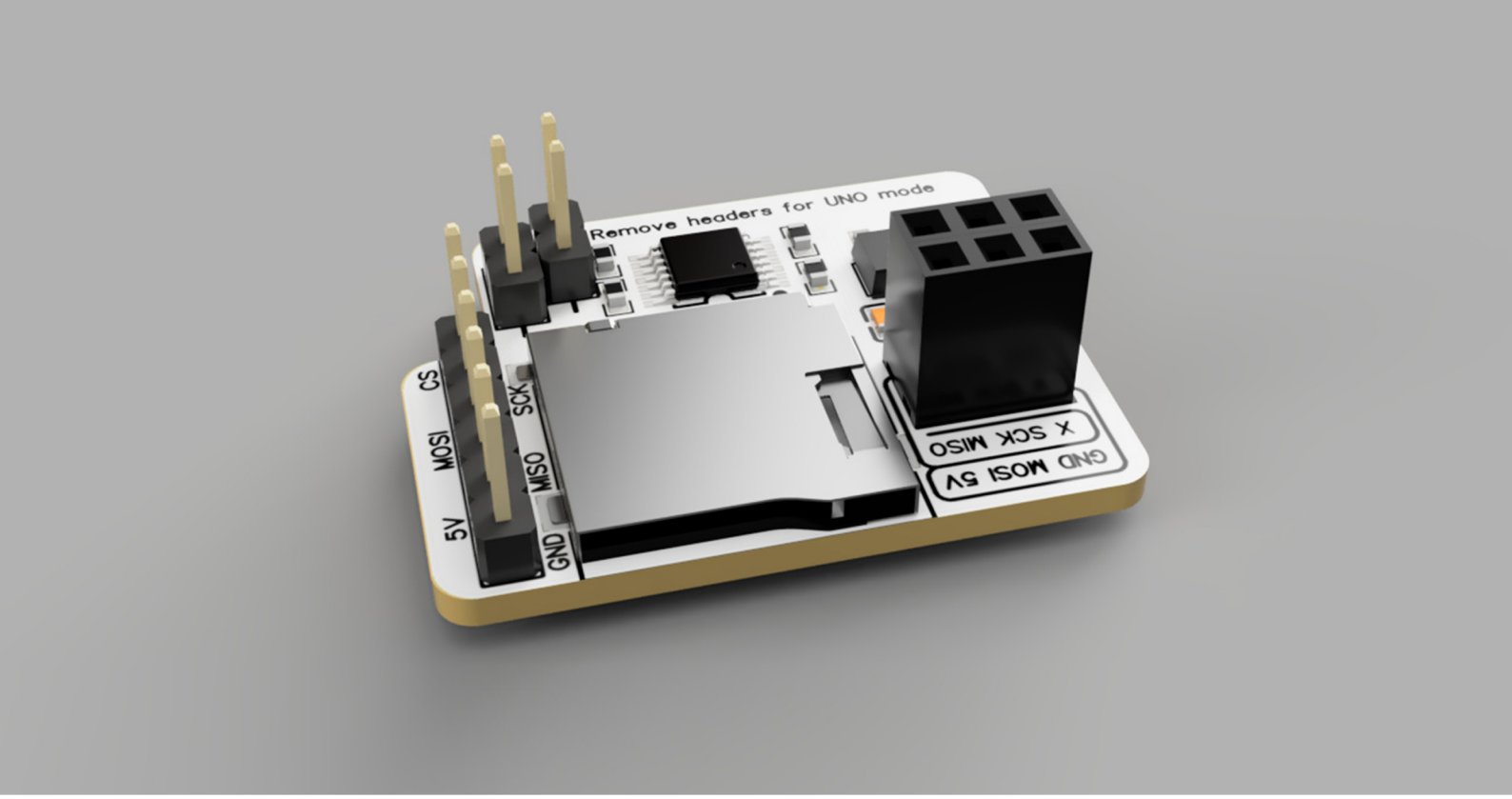
amomii



amomii SD

DATASHEET SKU : SD01V1M



Description

The amomii SD card reader is a compact and efficient solution for reading and writing to microSD cards with your microcontroller projects. The module can be used in two different modes: UNO mode, where it connects directly to the ICSP pins and digital pins 0-2 on the amomii UNO or other Arduino UNO variations, and Standard mode, where it connects via jumper wires to a microcontroller's VCC, GND, and SPI pins. The reader is powered by an AMS1117 voltage regulator, which operates in the input voltage range of 2.5V to +12.0V and provides a regulated output voltage of 3.3V with a maximum output current of 800mA. With its compact size and versatile compatibility, the amomii SD card reader is a valuable addition to any maker's arsenal.

Technical Specifications

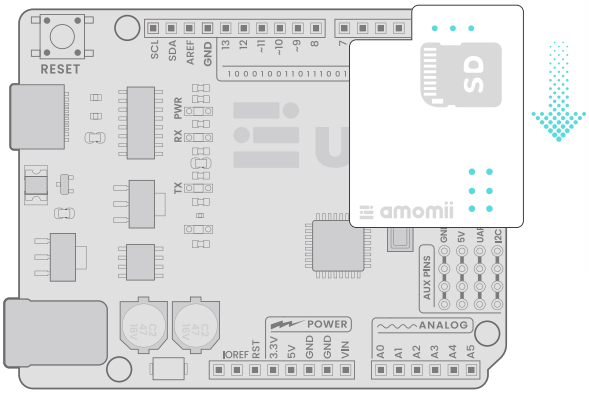
Compatibility	Works with various microcontrollers
Card Supported	microSD
Pin Configuration	UNO mode – Connects directly to the ICSP pins and digital pins 0–2 Standard Mode – Connects via jumper wires to a microcontroller's VCC, GND, and SPI pins
Voltage Regulator:	AMS1117-3.3V
Input Voltage:	5V
Output Voltage:	3.3V (fixed, internally trimmed)
Output Current:	800mA
Length	32mm
Width	25mm
Weight	5g

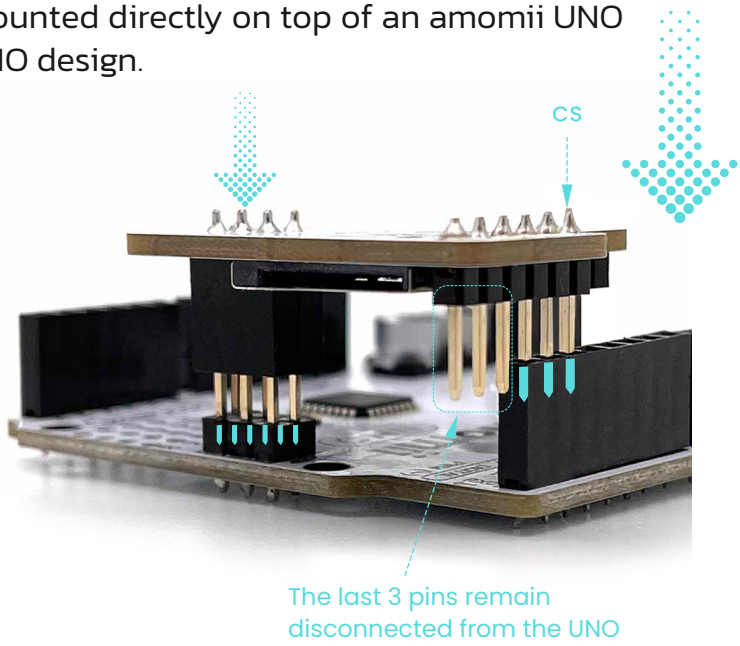
Compatibility and Connections

The amomii SD module is compatible with microcontrollers using the SPI communication protocol and can be used in two modes - UNO mode and Standard mode.

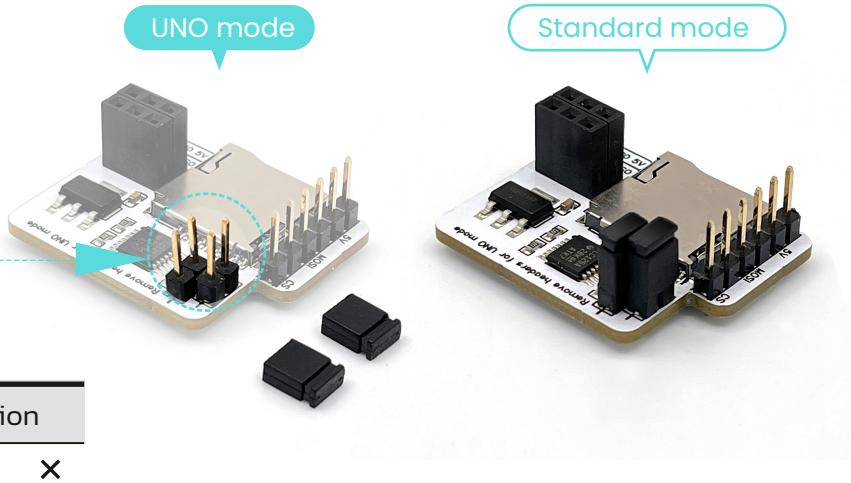
UNO Mode

In UNO mode, the amomii SD can be mounted directly on top of an amomii UNO or any other board with the Arduino UNO design.





To set the module to UNO mode, remove the jumpers from the four pins in the middle.



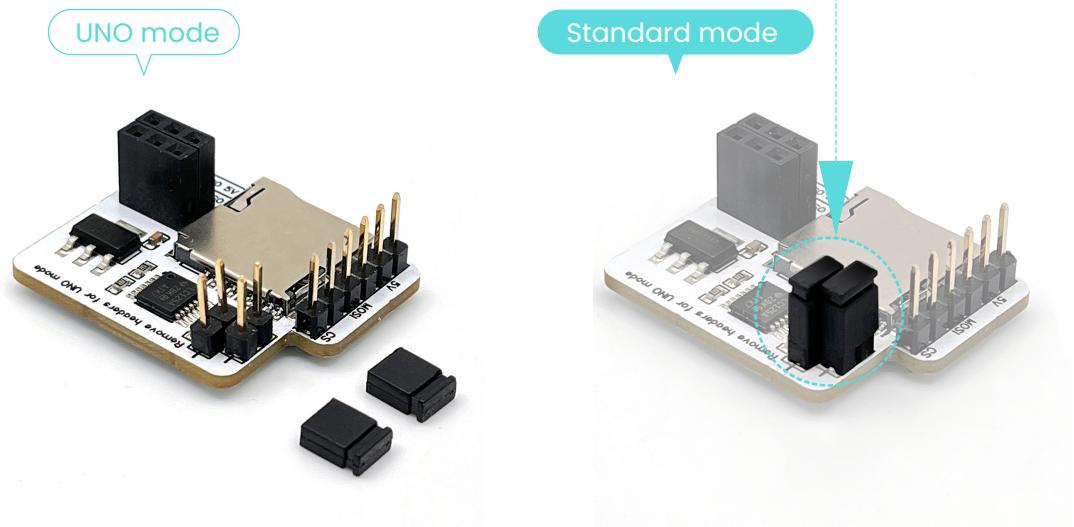
UNO Board Pin	amomii SD Connection	
D0	NOT USED	✕
D1	NOT USED	✕
D2	CS	●
MOSI	MOSI	●
MISO	MISO	●
SCK	SCK	●
RESET	NOT USED	✕
5V	5V	●
GND	GND	●

In this mode, the module connects directly to the ICSP pins and digital pins 0-2, but not all of the pins are used by the module.

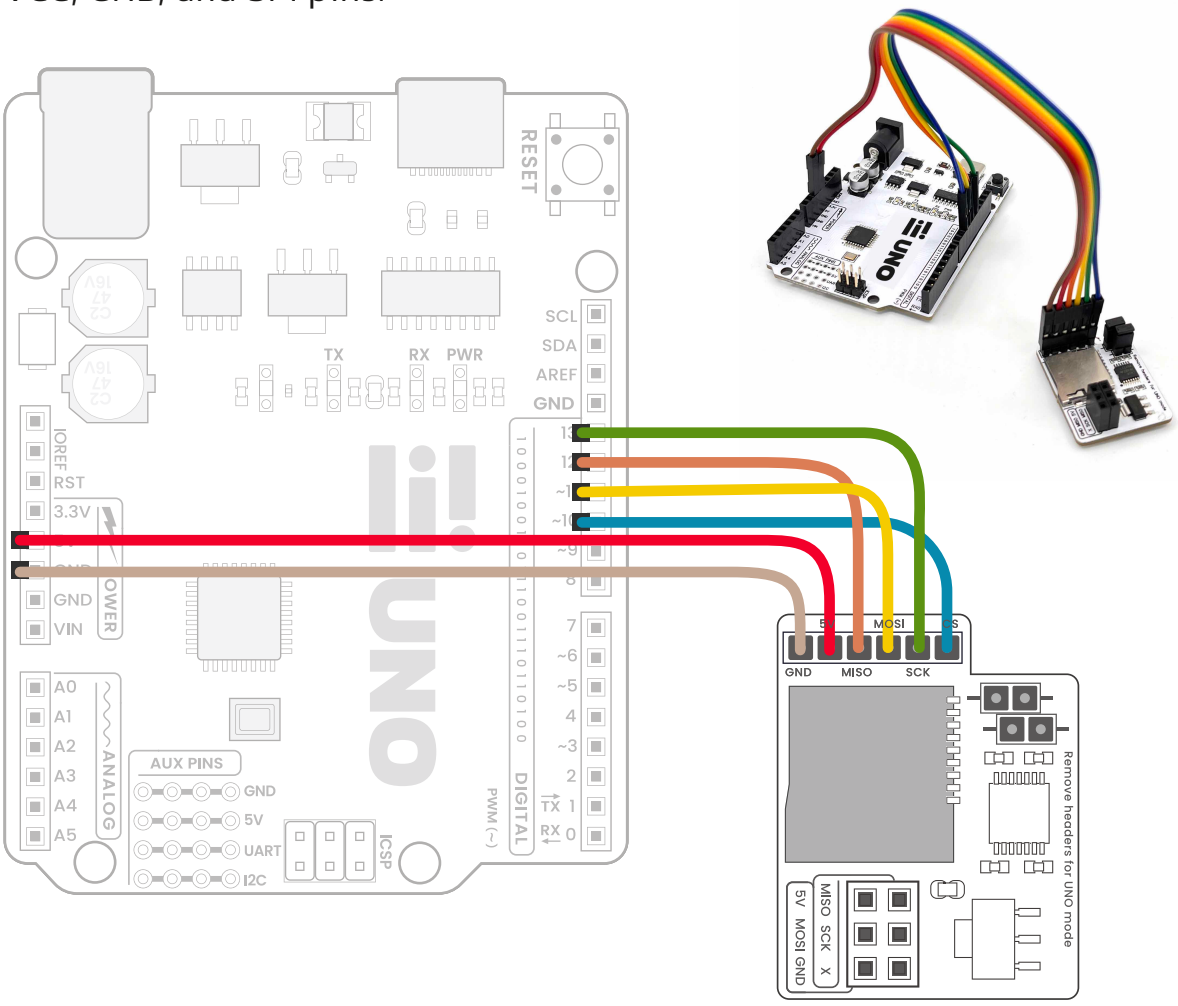
Standard Mode

In Standard mode, the amomii SD can be connected to most microcontrollers that support the SPI communication protocol.

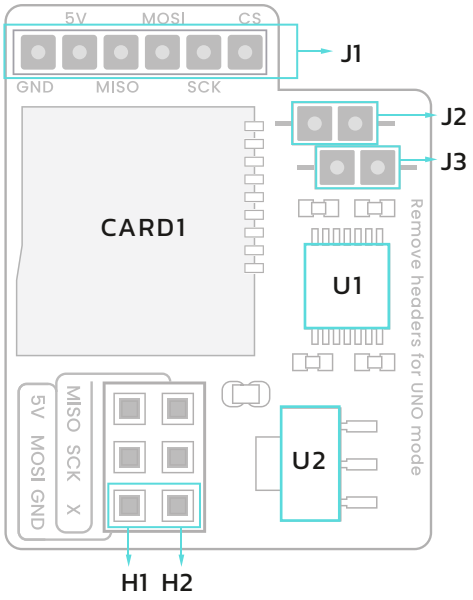
To set the module to Standard mode, the pins in the middle must be connected with jumpers as shown in the diagram.



In this mode, the module must be connected to a microcontroller's VCC, GND, and SPI pins.

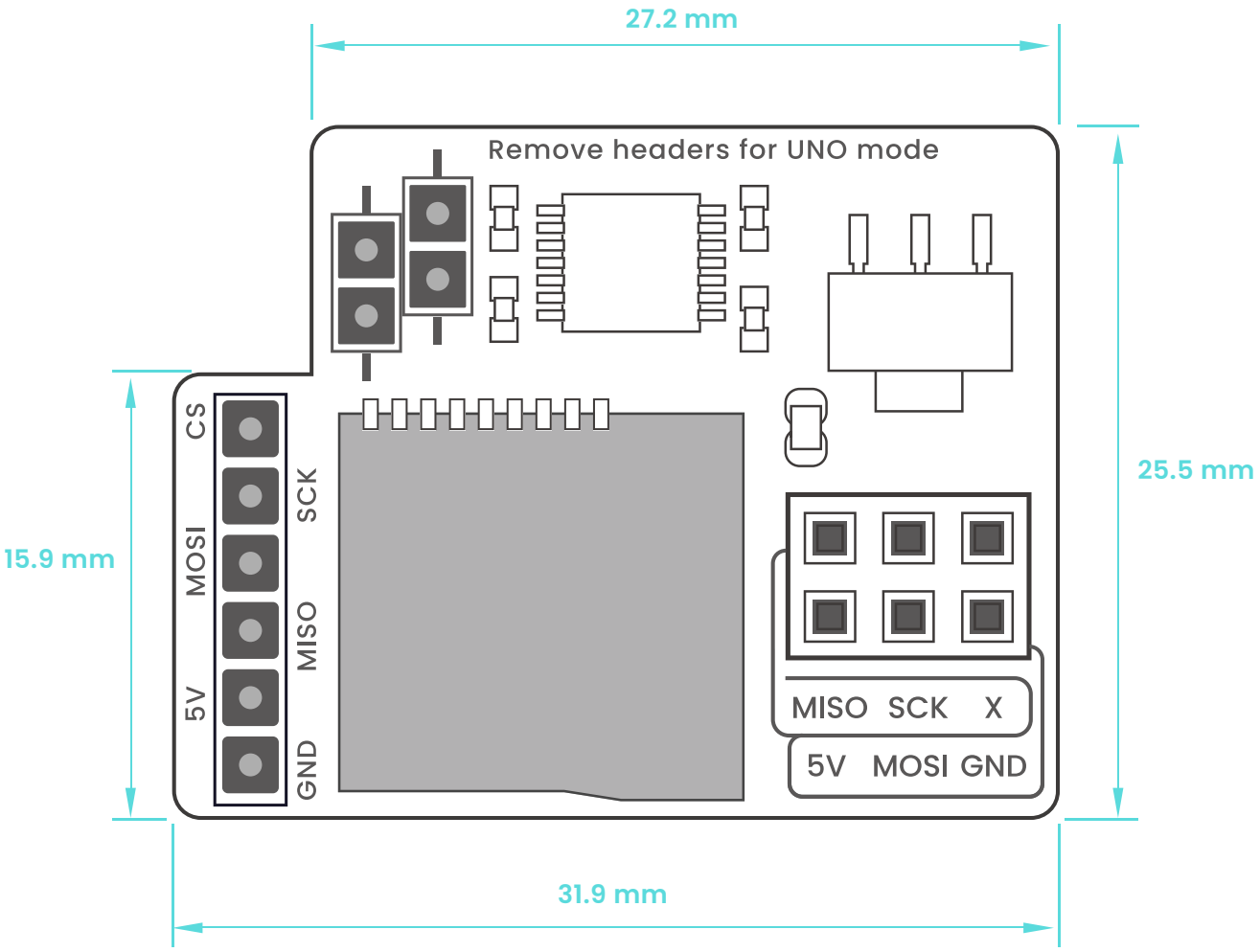


Topology



Identifier	Description	Datasheet
CARD1	Card Slot – microSD	
U1	Quad Buffer IC	
U2	3.3V Voltage Regulator	
H1, H2	3 Pin Female Header (2.54mm)	
J1	6 Pin Male Header (2.54mm)	
J2,J3	2 Pin Male Header (2.54mm)	

Board Dimensions



Revision History

Date	Revision	Changes
MAY. 12. 2023	1.0	First release

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