

Seeeduino Stalker

Seeeduino Stalker is a feature rich Arduino compatible **Wireless Sensor Network node** with **Data logger functionality**. It's modular structure and onboard peripherals makes it convenient to log time stamped sensor data on a periodic basis. **Seeeduino Stalker** comes with a *Temperature sensor, RTC with backup power, SD Card Socket, Bee Socket and Solar LiPoimer Ion Battery Charger*. The **Seeeduino Stalker** is a good candidate for all your tracking, monitoring and control projects.

Please note that the current (and also the latest) version of is [Seeeduino Stalker v2.2](#)

Clicking on the images below will take you to the documentation for the corresponding version.



Seeeduino Stalker v1.0
(ATmega328P/168P)
now discontinued



Seeeduino Stalker v2.0
(ATmega328P)



Seeeduino Stalker v2.1
(ATmega328P)



Seeeduino Stalker v2.2
(ATmega328P)

Comparison between various versions of Seeeduino Stalker

Parameter	v1.0	v2.0	v2.1	v2.2	Remarks
Product Release Date	23rd Dec 2009	17th Dec 2010	3rd Oct 2011	29th Dec 2011	
Production Status	Discontinued	Discontinued	Discontinued	In Production	
User LED & Switch					
User LED	PB5 (Arduino Pin 13)	PB0 (Arduino Pin 8)	PB0 (Arduino Pin 8)	PB0 (Arduino Pin 8)	
User Switch	PB4 (Arduino Pin 12)	Not Present	Not Present	Not Present	
Arduino Compatibility					
Physically compatible with Arduino pinout	Yes	Yes	Yes	Yes	Compatible with Diecimila/Duemilanove/UNO
Software compatible with Arduino	Yes	Yes	Yes	Yes	Bootloader preloaded
Atmega168 variant Available	Yes	No	No	No	
Atmega328 variant Available	No	Yes	Yes	Yes	
AVRISP 6 Pin header	Yes	Yes	Yes	Yes	

present					
FT232RL & USB Connector Present	No	No	No	No	In both version "UartSBee V3.1" or V4.0 must be brought seperately and used for program downloading using Arduino IDE. A connector to mate to UartSBee is present on both versions. Microcontroller reset will automatically be controlled by DTR. In v2.1 the programming connector arrangement is different from previous versions.
Standalone Operation	Yes	Yes	Yes	Yes	
Operation as a shield for Arduino/Seeeduino	Yes	No	No	No	
Can be stacked further in shield mode?	Yes	N.A.	N.A.	N.A.	Using I ² C Interface
Real Time Clock					
Chip	DS1307	RX8025	DS3231	DS3231	
Onboard backup power source	CR2032 Coin Cell	Super Capacitor	CR2032 Coin Cell	CR2032 Coin Cell	
Interface	I ² C	I ² C	I ² C	I ² C	
I²C Interface					
Connector for direct connection to PC4 and PC5 (ie SCL and SDA) of the microcontroller	Yes	Yes	Yes	Yes	
Onboard level translation for connecting to 5.0 volt devices while microcontroller operates in 3.3v mode	Yes (using PCA9306)	Yes (using N channel enhancement MOSFET)	Yes (using N channel enhancement MOSFET)	Yes (using N channel enhancement MOSFET)	
Power Supply					
From DC Supply	Yes (5-12V DC)	Yes (connect to Solar Cell Connector, but apply 5.0 Volts only)	Yes (connect to Solar Cell Connector, but apply 5.0 Volts only)	Yes (connect to Solar Cell Connector, but apply 5.0 Volts only)	
From USB	Yes (when used with UartSBee V3.1)	Yes (when used with UartSBee V3.1)	Yes (when used with UartSBee V4.0 or FTDI Cable)	Yes (when used with UartSBee V4.0 or FTDI Cable)	
From Solar Panel	No	Yes (Seperate Connector Present)	Yes (Seperate Connector Present)	Yes (Seperate Connector Present)	
From Lithium Polymer Battery	No	Yes (Seperate Connector Present)	Yes (Seperate Connector Present)		
Battery voltage measurement	No	Yes (Jumper for connecting to ADC7)	Yes (Jumper for connecting to ADC7)	Yes (Jumper for connecting to ADC7)	
Battery Charging?	No	Yes (Through solar cell,	Yes (Through solar cell,	Yes (Through solar cell,	

		Managed by CN3063 Chip)	Managed by CN3063 Chip)	Managed by CN3063 Chip)	
Battery Charging Status Read?	No	Yes (Digital Pin 6&7)	Yes (Digital Pin 6&7)	Yes (ADC6)	