

SenseCAP LoRaWAN Sensor

Product Catalogue

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About SenseCAP

Among the first launch of Seeed IIoT product series, SenseCAP is focusing on wireless environmental sensing applications: smart agriculture, precision farming, and smart city, to name a few. It consists of hardware products (sensors, data-loggers & gateways, etc.), software services (SenseCAP portal, mobile App, open dashboard), and API for device & data management.

About S21XX/A110X Series

The next generation of LoRa sensors, the S21XX/A110X series offers users' industrial long-distance data acquisition via LoRaWAN. This series is suitable for a wide variety of different industries such as smart agriculture, smart buildings and industrial control.



With the IP66 rating, -40 \sim +85C $^{\circ}$ operating temperature and built-in 19Ah high-capacity battery, combined with the

devices' low power consumption, the series can operate in harsh outdoor environments for up to 10 years with a range of up to 10km. The built-in Bluetooth facilitates setup and greatly reduces large-scale deployment costs. Users can focus on application development with the easy set-up, and start retrieving data in a few steps. Just install the device, bind it using the QR code and configure the network, then data can be viewed from the SenseCAP portal, which supports popular IoT protocols such as HTTP and MQTT.

Architecture



Application



How to Select Gateway and LoRaWAN® Network Server

LoRaWAN network coverage is required when using sensors, there are two options.

Option 1

Sensors are used out of the box with the Helium network

Make sure you are covered by Helium Network.

Add Sensor to your account by scanning sensor QR code

3 Get the data from SenseCAP Portal and App







Option 2

Sensors are used with standard LoRaWAN network

Deploy gateway and select LoRaWAN Network Server



2 Set parameters and get EUI/Key of sensor via SenseCAP App

Create a device on the LoRaWAN Server Console

e on the er Console



 * The LoRaWAN® name and the associated logo are licensed by the LoRa Alliance.

Features - S210X/A110X Series



High accuracy sensor Fast response and superior stability



Ultra-low power consumption Battery life of up to 10 years with built-in 19Ah battery



Industrial design -40 ~ 85°C operating temperature and IP66 rating





Quick configuration User-friendly set-up with built-in Bluetooth



Easy deployment Easy to mount via brackets



Efficient integration SenseCAP cloud services with Open API support further development



Multi-platform Compatible with multiple NS (Helium, TTN) and IoT platforms



Weather resistant

Suitable for indoor, outdoor and harsh environments such as high UV exposure, heavy rain, dusty conditions etc.







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SenseCAP S2101 Air Temperature and Humidity Sensor

Specifications

Air Temperature				
Range	-40 to +85 ° C			
0				
Accuracy Resolution	±0.2 ° C			
	0.01 ° C			
Long-term Drift	<0.03 ° C/year			
Air Humidity				
Range	0 to 100 %RH			
Accuracy	±1.8 %RH			
Resolution	0.01 %RH			
Long-term Drift	<0.25 %RH/year			
General Parameters				
Product Model	S2101			
Microcontroller	Wio-E5			
Support Protocol	LoRaWAN v1.0.3 Class A			
Built-in Bluetooth	App Tool to change parameters			
LoRaWAN Channel Plan	N865/EU868/US915/AU915/			
	AS923/KR920/RU864 *			
Max Transmitted Power	19dBm			
Sensitivity	-136dBm@SF12 BW=125KHz			
Communication	2 to10km (depending on gatewa			
Distance	antenna and environments)			
IP Rating	IP66			
Operating Temperature	-40 to +85 ° C			
Operating Humidity	0 to 100 %RH (non-condensing)			
Device Weight	280g			
Certification	CE / FCC / RoHS			
Battery (Contained in eq	uipment)			
Battery Life	Up to 10 years**			
Battery Capacity	19Ah (non-rechargeable)			
Battery Type	Standard D-size SOCI2 Battery			

* A device supports different frequencies and can be configured via the Bluetooth App.

** The battery life varies from data upload interval and distance between gateway.







SenseCAP S2102 Light Intensity Sensor

Specifications

Light Intensity	
Range	0 to 160000 Lux
Accuracy	±5%
Resolution	1 Lux
General Parameters	
Product Model	S2102
Microcontroller	Wio-E5
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/
	AS923/KR920/RU864 *
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication	2 to 10 km (depending on gatewo
Distance	antenna and environments)
IP Rating	IP66
Operating Temperature	-40 to +85 ° C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	280g
Certification	CE / FCC / RoHS
Battery (Contained in eq	uipment)
Battery Life	Up to 10 years**
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery

 $^{\ast}\;$ A device supports different frequencies and can be configured via the Bluetooth App.

 $\ast\ast$ The battery life varies from data upload interval and distance between gateway.







SenseCAP S2103 CO2, Temperature, and Humidity Sensor

Specifications

CO2				
Range	400 to 10000 ppm			
Accuracy	400 to 5000 ppm: ±(30+3%MV)			
	5000 to 10000 ppm: ±10%MV			
Resolution	1 ppm			
Air Temperature				
Range	-40 to +85 ° C			
Accuracy	±0.2 ° C			
Resolution	0.01 ° C			
Long-term Drift	<0.03 ° C/year			
Air Humidity				
Range	0 to 100 %RH			
Accuracy	±1.8 %RH			
Resolution	0.01 %RH			
Long-term Drift	<0.25 %RH/year			
General Parameters				
Product Model	S2103			
Microcontroller	Wio-E5			
Support Protocol	LoRaWAN v1.0.3 Class A			
Built-in Bluetooth	App Tool to change parameters			
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/			
	AS923/KR920/RU864*			
Max Transmitted Power	19dBm			
Sensitivity	-136dBm@SF12BW=125KHz			
Communication	2 to 10 km (depending on gatewa			
Distance	antenna and environments)			
IP Rating	IP66			
Operating Temperature	0 to 50 ° C **			
Operating Humidity	0 to 90 %RH (non-condensing)			
Device Weight	285g			
Certification	CE / FCC / RoHS			
Battery (Contained in eq	uipment)			
Battery Life	Up to 10 years***			
Battery Capacity	19Ah (non-rechargeable)			
Battery Type	Standard D-size SOCI2 Battery			

 $^{\ast}~$ A device supports different frequencies and can be configured via the Bluetooth App.

 ** It is limited to the operating temperature of the CO2 chip, beyond which CO2 value may be inaccurate or have incorrect values

***The battery life varies from data upload interval and distance between gateway.







SenseCAP S2104 Soil Temperature and Moisture Sensor

SenseCAP S2105 Soil Temperature, Moisture and EC Sensor

Specifications

-40 to +80 ° C				
0 to 50° C: ±0.5 ° C				
-40 to 0, 50 to 80° C:±1 ° C				
0.1 ° C				
netric Water Content)				
0 to 100% (air - water)				
0 to 50%: ±3%				
50 to 100%: ±5%				
0 to 50%: 0.1%				
50 to 100%: 0.5%				
Only supported in \$2105)				
0 to 23 dS/m				
0 to 5 dS/m: ±5%				
5 to 23 dS/m: ±10%				
0 to 5 dS/m: 0.01dS/m				
5 to 23 dS/m: 0.1dS/m				
S2104/S2105				
Wio-E5				
LoRaWAN v1.0.3 Class A				
App Tool to change parameters				
IN865/EU868/US915/AU915/				
AS923/KR920/RU864 *				
19dBm				
-136dBm@SF12 BW=125KHz				
2 to 10 km (depending on gatew				
antenna and environments				
IP66				
-40 to +85 ° C				
0 to 100 %RH (non-condensing)				
405g				
405g 5 meters				
5 meters				
5 meters CE / FCC / RoHS				
5 meters CE / FCC / RoHS uipment)				

 * $\,$ A device supports different frequencies and can be configured via the Bluetooth App. $\,$

 $\ensuremath{^{**}}$ The battery life varies from data upload interval and distance between gateway.





SenseCAP S2106 pH Sensor (water and soil)

Specifications

рН	
Range	0 to 14 pH
Accuracy	±0.1 pH
Resolution	0.01 pH
Temperature (Built-in junc	ction box*)
Range	-40 to 80 ℃
Accuracy	±0.5 ℃
Resolution	0.1 °C
General Parameters	
Product Model	S2106
Microcontroller	Wio-E5
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/
	AS923/KR920/RU864 **
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication	2 to 10 km (depending on gateway
Distance	antenna and environments
IP Rating	IP66(LoRa DTU); IP65(Junction box);
	IP68(Sensor probe)
Operating Temperature	-40 to +85 ° C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	600g
Cable Length	2 meters(DTU to junction box);
	5 meters(juction box to probe)
Certification	CE / FCC / RoHS
Battery (Contained in eq	uipment)
Battery Life	Up to 10 years***
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery

* Note: the temperature sensor in the junction box that can not measure the temperature of water or soil.

** A device supports different frequencies and can be configured via the Bluetooth App.

*** The battery life varies from data upload interval and distance between gateway.







Specifications

Temperature	
Range	-50 to +300℃
Accuracy	±0.5 ℃
Resolution	0.1 °C
General Parameters	
Product Model	S2107
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/
	AS923/KR920/RU864 *
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication	2 to10km (depending on gateway
Distance	antenna and environments)
IP Rating	IP66
Operating Temperature	-40 to +85 ℃ (LoRa DTU);
	-50 to 200℃(Cable); -50 to 300℃ (Probe
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	360g
Certification	CE / FCC / RoHS / TELEC
Battery (Contained in equ	uipment)
Battery Life	Up to 10 years**
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery

* A device supports different frequencies and can be configured via the Bluetooth App.

 $\ast\ast$ The battery life varies from data upload interval and distance between gateway.









SenseCAP S2108 Soil Moisture, Temperature and Pore EC Sensor

Specifications

Soil Temperature	
Range	-40 to +80 ℃
Accuracy	±0.5 ℃
Resolution	0.1 ℃
Soil Moisture (VWC-Volu	metric Water Content)
Range	0 to 100%
Accuracy	0 to 50%: ±2%
,	50 to 100%: ±3%
Resolution	0 to 50%: 0.03%
	50 to 100%: 1%
Electrical Conductivity (Bulk EC)
Range	0 to 20 mS/cm
Accuracy	0 to 10 mS/cm: ±3%
,	10to 20 mS/cm: ±5%
Resolution	0.01mS/cm
Electrical Conductivity (Pore EC)
Range	0 to 32 mS/cm
Accuracy	Calculation by the Hilhorst model is for
	reference only
Resolution	0.01mS/cm
General Parameters	
Product Model	\$2108
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel	IN865/EU868/US915/AU915/
Plan	AS923/KR920/RU864 *
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication	2 to 10 km (depending on gateway antenno
Distance	and environments
IP Rating	IP66
Operating Temperature	-40 to +85 ℃
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	610g
Cable Length	5 meters (The connector in the cable is used
	to separate the probe for easy installation)
Certification	CE / FCC / RoHS / TELEC
Battery (Contained in ed	quipment)
Battery Life	Up to 10 years**
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery

 * A device supports different frequencies and can be configured via the Bluetooth App.

** The battery life varies from data upload interval and distance between gateway.







SenseCAP S2100 LoRaWAN Data Logger / DTU

Specifications

Interface*	
Current Input	4 to 20 mA (2 channel)
Voltage Input	0 to 10 V (2 channel)
RS485	RS485 Modbus-RTU Protocol
GPIO	1xGPIO(Pulse or Level Mode)
General Parameters	
Product Model	SenseCAP S2100
Microcontroller	Wio-E5
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters and
	set data conversion algorithm
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/
	AS923/KR920/RU864 **
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication	2 to 10 km (depending on gateway
Distance	antenna and environments)
IP Rating	IP66
Operating Temperature	-40 to +85 ° C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	280g
Certification	CE / FCC / RoHS
Power Supply***	
Sensor Power	3V / 5V, 12V(DC only)
PCBA Power	12V DC or Battery(contained)
Battery Life	Depends on the power consumptior
	of the sensor
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery
Hardware supports all interfaces by	it the software supports only one interface type to

* Hardware supports all interfaces, but the software supports only one interface type to collect data simultaneously. For example, if the 4 to 20mA is selected, the RS485 interface cannot be used at the same time.

** One device supports different frequencies and can be configured via the Bluetooth App.

*** Both external power supply and battery power supply are supported. If 12V is connected to an external power supply, the external power supply is preferred and the battery is used as the backup power supply. The DTU supports 3V and 5V sensors when battery power.



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Dimension





SenseCAP A1101 LoRaWAN Vision AI Sensor

Specifications

Vision Al	
ML Framework	TensorFlow Lite/PyTorch
Al Hardware Acceleration	400Mhz DSP
Model Resolution	192*192 pixel
Camera	
Field of view	Diagonal 82°
Camera Resolution	30W pixel
General Parameters	
Product Model	A1101
Microcontroller	Wio-E5
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/
	AS923/KR920/RU864
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication Distance	2 to 10 km (depending on gateway
	antenna and environments)
IP Rating	IP66
Operating Temperature	-40 to +85 ° C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	280g
Certification	CE / FCC / RoHS
Battery (Contained in equi	pment)
Battery Life	Varies depending on model and
	recognition wake frequency
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery



TinyML+LoRaWAN Perfect Combination

Application



Customizable Vision Al









SenseCAP S2120 LoRaWAN 8-in-1 Weather Station





Diagram

- 1. Rain gauge
- 2. Balance indicator
- 3. UV and light Intensity sensor
- 4. Wind vane
- 5. Wind cups
- 6. Antenna
- 7. Solar panel
- 8. Radiation shield, temperature and humidity sensor, barometric pressure sensor
- 9. Drain holes
- 10. Built-in battery box
- 11. Red LED indicator
- 12. Config button
- 13. Mounting clamp
- 14. Adjustable hinge of solar panel
- 15. Tipping bucket







Installation Steps







Specifications

Air Temperature		Support Protocol	LoRaWAN v1.0.3 Class A		
Range	-40.0 ~ 80.0 ℃	Built-in Bluetooth	App Tool to change parameters		
Accuracy	±0.5℃ (0~80℃); ±0.6℃ (-40~0℃)	LoRaWAN Channel Plan	IN865/EU868/US915/AU915/		
Resolution	0.1℃		AS923/KR920/RU864*		
Air Humidity		GPS	Need to customize		
Range	1~99 %RH	LoRaWAN Max	21dBm		
Accuracy	±3% (1~90%RH); ±4% (90~99%RH)	Transmitted Power			
Resolution	1%RH	LoRa Sensitivity	-141dBm@SF12 BW=125KHz		
Barometric Pressure		Communication	2 to 10 km (depending on gatewo		
Range	540 ~ 1100hPa	Distance	antenna and environments)		
Accuracy	±5hPa(700~1100hPa);		Suitable for outdoor scenes		
	±8hPa (540 ~ 699hPa)	Protection grade	-20 to +60 $^{\circ}$ C (Alkaline battery)		
Resolution	1hPa	Operating Temperature	-40 to +60 $^\circ$ C (Lithium battery)		
Wind Speed			0~99%RH		
Range	0~50.0m/s	Operating Humidity	1.5kg		
Accuracy	±0.5m/s(<5m/s); ±10% (> 5m/s)	Device Weight	CE / FCC / RoHS		
Resolution	0.1 m/s	Certification			
Wind Direction		Power Supply	0.5W (When there is sunlight, solar		
Range	0~360°	Solar Panel	panels will be used first, otherwise		
Accuracy	±8°		batteries will be used)		
Resolution	1°		AA size, 1.5V batteries (alkaline or		
Light Intensity		Battery Type**	non-rechargeable Lithium battery		
Range	0 ~ 200000 lux		Option1, built-in battery box:		
Accuracy	± 10%	Number of Battery	3 * AA battery ;		
Resolution	1lux		Option2, external battery box:		
UV Index			6 * AA battery		
Range	0~16.0		2 years (Solar Panel + 6*AA Battery,		
Accuracy	±1.5	Battery Life	1h/uplink)		
Resolution	0.1		Support 6 * AA 1.5V batteries		
Rain Hourly		External Battery Box	Cable: 2m		
Range	0 ~ 450 mm/h		IP Rating: IPX6		
Accuracy	± 7%	* A device supports different frequence	cies and can be configured via the Bluetooth App.		
Resolution	0.254 mm/h	** The battery life varies from data upload interval and distance between gateway.			
General Parameters	5				
Product Model	\$2120				

WM-LR1110

Microcontroller

SenseCAP Mate App

SenseCAP Mate is a standalone Bluetooth configuration tool, which can modify sensor parameters like EUI, key, frequency plan, etc.





Configure sensor and do OTA

Dashboard for various scene



Real-time data monitoring

D/W/M history data review



Manage devices remotely

How to Use the Sensor



SenseCAP Portal

SenseCAP Portal is a web-based platform which enables

- · Device management
- · Data management
- · API Access Key management



Dashboard

Including Device Overview, Data Upload Interval, Announcement, Scene Data, and Data Chart, etc.

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O Dashboard	Data / Tabl							
a Devices ~								
Galeway	~		ND-InT					
Node Group		EM Device Eur						
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9 Security ~	-							
Access APLings	NO.	0.0	Device Name	Measurement	Value	Channel	Device Group	Frame Counter 2
		207751221040080	Ar Temp8Hami-20F3F12210400083	Air municity	711/04		stactory-sensor	0x0000110F(4387)
		2077912210400080	Ar Templiteurs-2077912210400080	Air Temperature	DVC		stactory-sensor	0x00001103F(4387)
		2077912210400075	Ugrs-20F79 x2210400079[Light	4.025.08		stactory-sensor	0x00001028(art38)
	4	2017/12210400374	Baro-2077912210400074	At Pressare	100452Fis		statory-sensor	0x000011003(4388)
		207751221040000	Air Templahani-2071912210400083	Air Intensidity	715201		statoyaemor	040001110E(4200)
		207791221040080	Air Tempdahumi-20719 12210400080	Air Temperature	295		statory-sensor	0x0000110E(x200)
	7	2017012210400070	Lign-act mixa2+6winterts	Light	73.44.08		stactory-sensor	0x0000+024(#138)
		2073712210400078	Baro-20FW12210408074	At Pressare	100545Pa		statory-sensor	0x00001102(4354)
		2077012210400000	Ar Templetani-2073912210400083	At Humidity	751,791		statoyeener	0x00001100(x300)
	90	207791221040080	Air Templithumi-2071912210400080	Air Temperature	2/16		statory-sensor	0x00001100(x005)
		2017012210400070	Light-201719 12210400078	Light	82.08Lux		whetery-sensor	0x0000+020(4107)

Data Management

Manage data, including Data Table and Graph section, providing methods to search for data.

Visit SenseCAP Portal: https://sensecap.seeed.cc

For more info, please visit: https://solution.seeedstudio.com



Device Management

Manage SenseCAP devices

SANSACAP 📰				English - 🚊	statory 52 @seed.cc -
	Access API keys				
	in keys to make secure REST or HTTP Query.	protocol requests to SENSE	CAP service APIs, so keep them sale.		
Galeway	rigation ld. 521853150891				
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fi Data 🗸					
Table Label		AP10	Access Level	AP1 Status	Greation Time
Griph		CE CRACKEE 13C 8770A	Only Fload 🔹 Full Acome	Active (effect at 2010-07-25 08:20.43)	2010-07-25 00:25:06
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		2009081020007014	Only Read 🔹 Full Acome	Active (effect at 2010-07-25.00/25.01)	2010-07-25-08:25:01
		2367560626547500	Only Read 🔹 Full Access	Active (effect at 2010-07-25 09:25:00)	2010-07-25 08:25:00
		ECEMADINENANDED	Only Read 🔹 Full Access	Active (effect at 2019-07-28 00:25:00)	2010-07-20-00:20:00
		DEDUTO-DESIGCARD	Only Read Full Access	Active (effect at 2010-07-25 00:24 50)	2010-07-25-09:24:59
		7804470487907210	Only Final Cruit Access	Active (effect al 2010-07-25 08:25:37)	2010-07-25-0824-57
Testo		DIRACIDELINERROR	Only Read 🔹 Full Access	Active (effect at 2010-07-25 09:23:52)	2010-07-05 09:20:26
		520150/080428175	Only Fload 🔹 Full Access	Active (effect at 2010-06-24 10.00.40)	2010-00-24 10:58:45

Access Key Management

Manage Access Key (to access API service), including: Key Create, Key Update, and Key Check.

Application Programming Interface (API)

SenseCAP also provides API to support further development.

Please visit this link for more info: https://sensecap-docs.seeed.cc

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	17-18-		<u> </u>
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API Introduction)	List of Binnor Information)	SenseCAP Portal Guick Bart >	Data Mangement >



SENSECAP

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