iWSN-1310-mA-ME Quick Start

v1.0, February 2022

Packing List

In addition to this guide, the package includes the following items:

iWSN-1310-mA-ME Module

Screw Driver

Technical Support

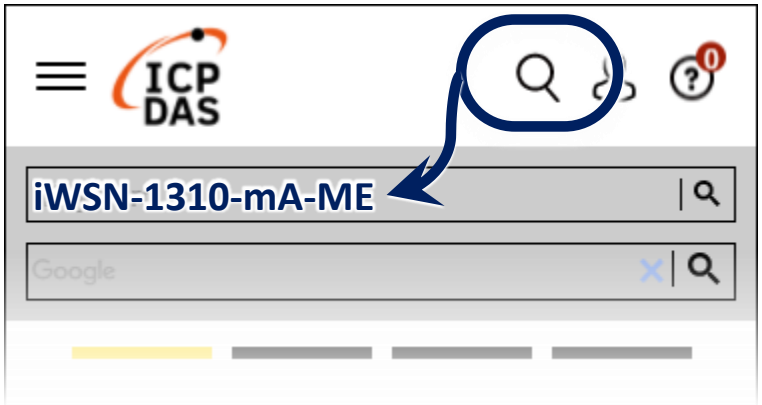
service@icpdas.com

www.icpdas.com

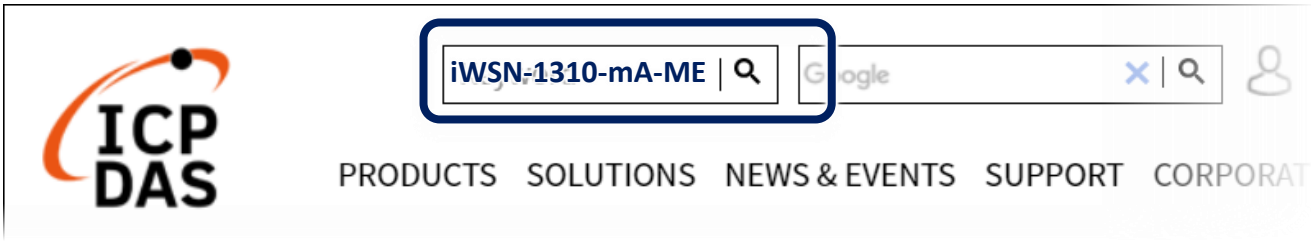
Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



- For Desktop Web



Warning

ICP DAS assumes no liability for any damage resulting from the use of this product. ICP DAS reserves the right to change this manual at any time without notice. The information furnished by ICP DAS is believed to be accurate and reliable. However, no responsibility is assumed by ICP DAS for its use, not for any infringements of patents or other rights of third parties resulting from its use.

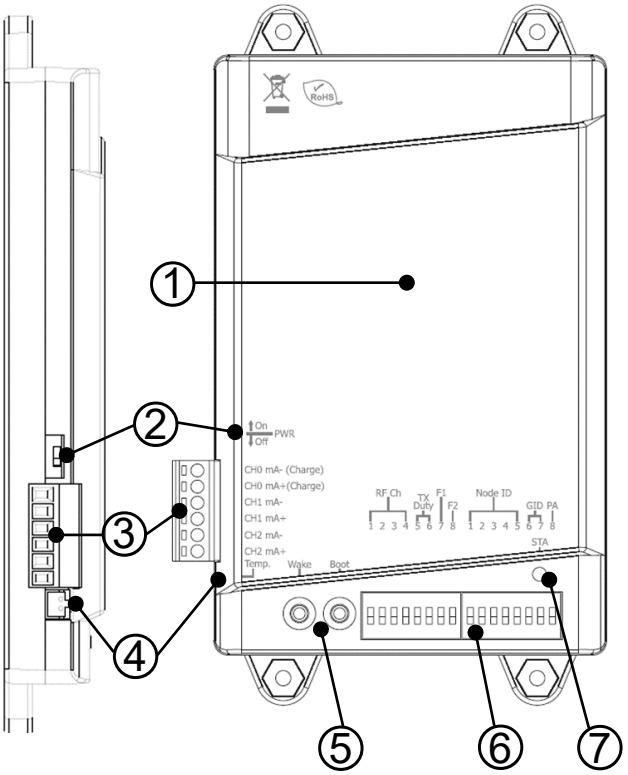
Limitation of Warranty

This warranty does not apply to defects resulting from unauthorized modification, misuse, or use for reason other than electrical power monitoring.

Product Warranty & Customer Support

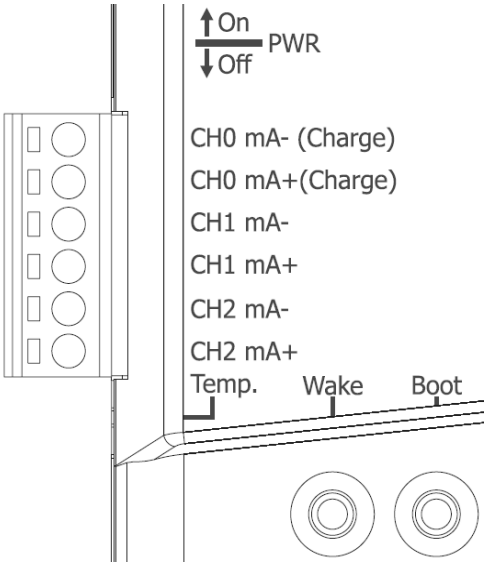
ICP DAS warrants all products free from defects in material and workmanship for a period of one year from the date of shipping. During the warranty period, we will, at our position, either repair or replace any product that proves to be defective. To report any defect, please contact us. Please have the model, serial number and a detailed problem description available when you call. When returning any merchandise to ICP DAS, a return SN. Is required.

1 Appearance



Number	Instructions
1	Build in PCB antenna
2	DIP switch of power
3	Current measurement connector
4	Thermistor interface
5	Boot and wake button
6	DIP switch of parameter setting
7	LED indicator

2 Wire and Buttons



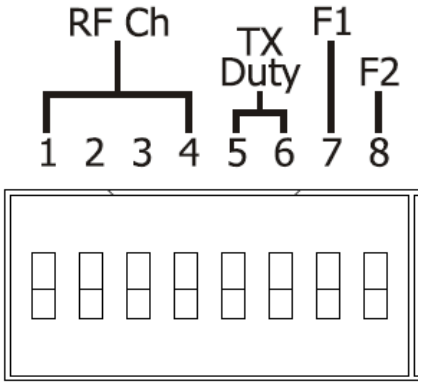
Switch	Instructions	
PWR	ON	Power on
	OFF	Power off

Pin	Name	Instructions
6	CH0 mA- (Charge)	Current measurement pin, have directionality, the positive terminal is connected to the positive terminal, and the negative terminal is connected to the negative terminal, support measuring and charging function.
5	CH0 mA+ (Charge)	
4	CH1 mA-	Current measurement pin, have directionality, the positive terminal is connected to the positive terminal, and the negative terminal is connected to the negative terminal, only measuring function.
3	CH1 mA+	
2	CH2 mA-	
1	CH2 mA+	

Interface	Instructions
Temp.	Thermistor Interface

Button	Instructions
Wake	Manual wake up
Boot	After pressing for 1~3 seconds, the LED light will be on for 1 second and then off. This mean boot complete.

3 Communication parameter



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(RF transmit duty)

■ : ON
□ : OFF</td><td>
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<tr><td>10 sec</td><td>■</td><td>□</td></tr>
<tr><td>30 sec</td><td>□</td><td>■</td></tr>
<tr><td>60 sec</td><td>■</td><td>■</td></tr>
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<tr><td>RF Ch
(RF Channel)

■ : ON
□ : OFF</td><td>
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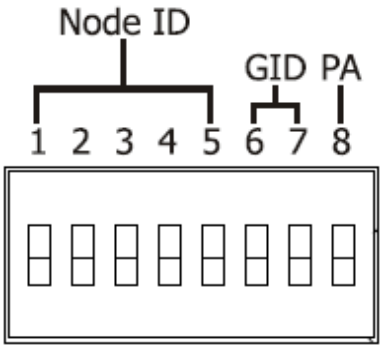

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(Group ID)

■： ON
□： OFF</td><td>
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■： ON
□： OFF</td><td>
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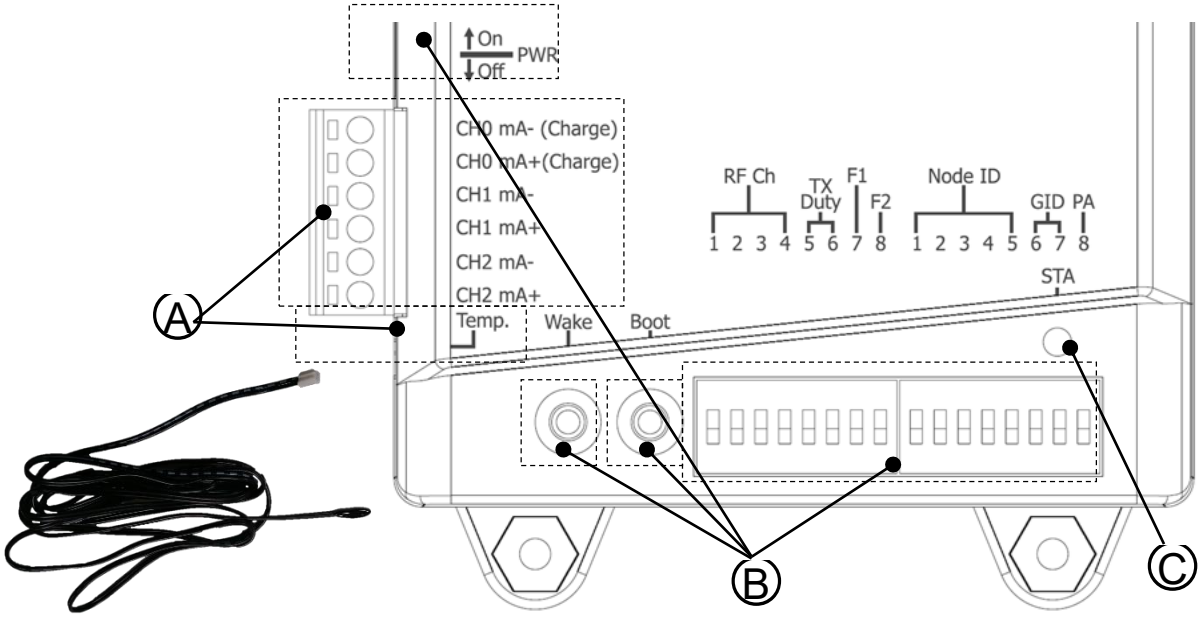
4 LED indicator

The module provides one LED indicator. The table below will show the LED status.

Indicators	Status	Instructions
STA	500ms Blink continuous	Illegal Node ID, please set the Node ID to 1~31, and then power on.
	Blink once	Low battery power. 1. Please confirm whether the measurement line is lock into the “Current measurement” pin of the module and bucked to the wire for charging. 2. If have any questions, please contact technology support.
	Blink twice	Component status is abnormal. 1. Reconnect and re-power the unit. 2. If have any questions, please contact technology support.
	Blink three times	Unable to confirm sensor type. 1. Reconnect and re-power the unit. 2. If have any questions, please contact technology support.

5 Boot Steps



A. Please confirm the measurement pin is locked into the module, pay attention to the directionality when connecting, and “Temp.” is connected Thermistor. (If there is no Thermistor, the “Temp.” don’t be connected.)

B. Adjusting DIP switch, set the parameter of communication and switch “PWR” to OFF. And then switch “PWR” to ON after press “Wake” and “Boot” buttons for 5 seconds.

C. When power on, if “STA” will light on for 1 second and off, this mean boot complete. If “STA” do not be lighted, please press “Boot” for 1~3 seconds, and confirm “STA” will light on for 1 second and off. Finally, press “Wake” once, confirm “STA” blink once namely the boot complete.

Note：

- The maximum current value cannot exceed the module rating. (Max. 20mA)