



iWSN-1110X Series Quick Start

v1.30, Apr 2019

What's in box

Without "Quick Start", The package includes the following items:



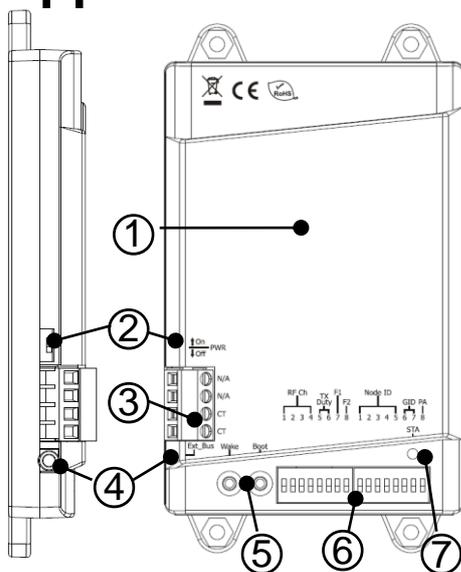
iWSN-1110X Series Module

Split-core CT

Screw Driver (1C016)

Module Name	Split-core CT	Module Name	Split-core CT
iWSN-1110X	Without CT	iWSN-1110X-240	8m, Φ24mm (200A), 1 pcs
iWSN-1110X-160	8m, Φ16mm (100A), 1 pcs	iWSN-1110X-360	8m, Φ36mm (400A), 1 pcs

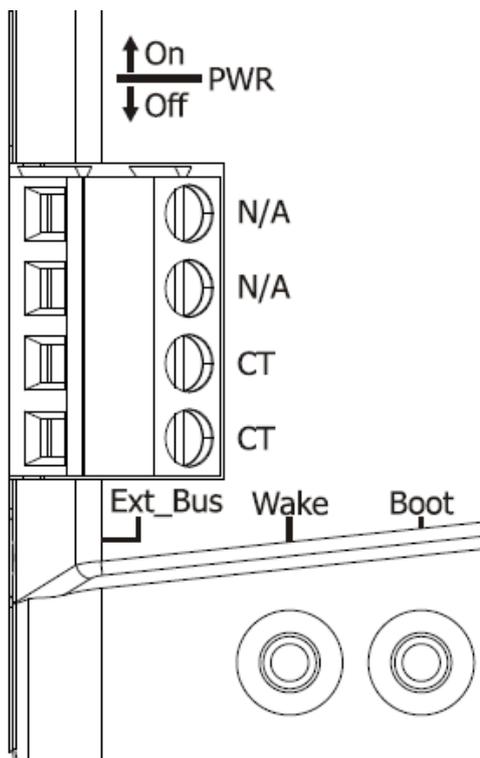
1 Appearance



Number	Instructions
1	Build in PCB antenna
2	DIP switch of power
3	CT connection terminal
4	Extension port
5	Boot and wake button
6	DIP switch of parameter setting
7	LED indicators

2 Pin and button

Switch	Instructions	
PWR	ON	Power on
	OFF	Power off

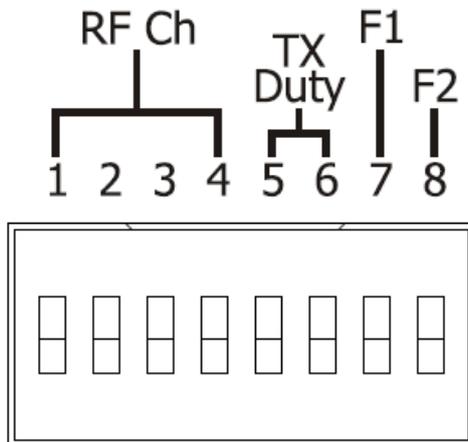


Pin	Name	Instructions
4	N/A	Reserved, empty or shorted
3	N/A	
2	CT	Split-core CT pin · no directionality · support measuring and charging function
1	CT	

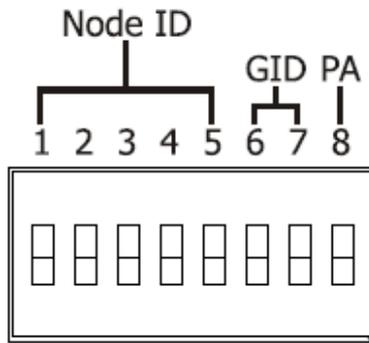
Extension bus	Instructions
Ext_Bus	Empty or connect extension module

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



Name	Instructions																																																																																																		
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F1																																																																																																			
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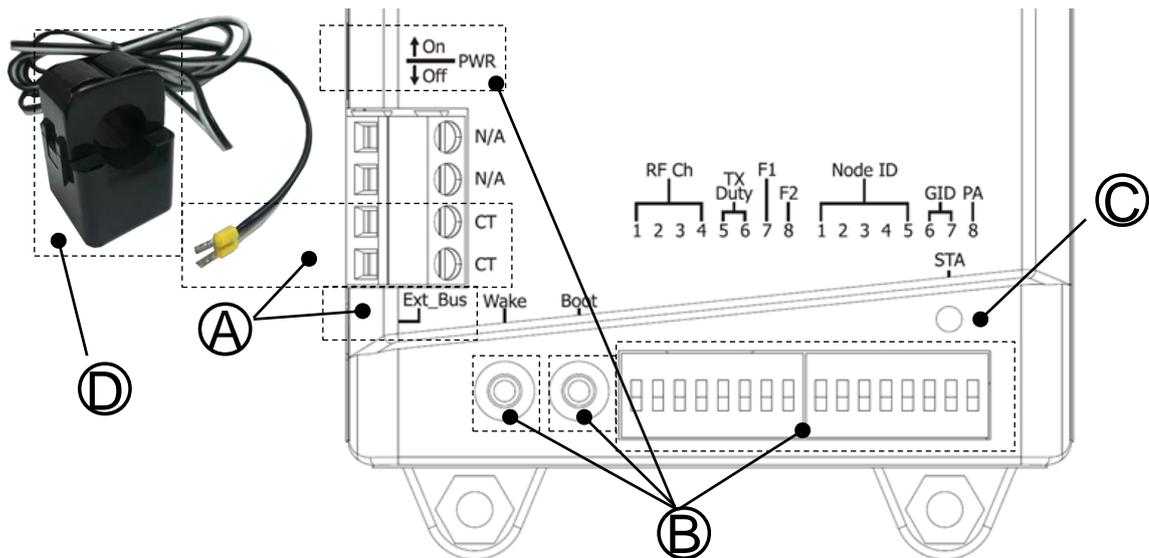
Name	Instructions											
PA	Factory Only											
GID (Group ID) ■ : ON □ : OFF	Group		Pin									
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	9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	12	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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4 LED indicators

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 CT is lock into the “CT” 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. Please confirm whether the audio line of “Ext_Bus” is fully inserted and the module is power off. And power on after press “Wake” and “Boot” buttons for 5 seconds. 2. If have any questions, please contact technology support.
	Blink three times	Unable to confirm sensor type. 1. Please confirm whether the audio line of “Ext_Bus” is fully inserted and the module is power off. And power on after press “Wake” and “Boot” buttons for 5 seconds. 2. If have any questions, please contact technology support.

5 Boot steps

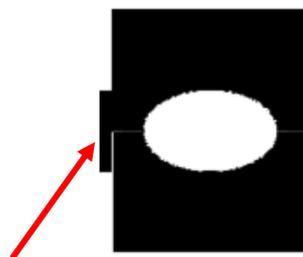


- A. Please confirm the CT is locked into the module, and “Ext_Bus” is connected an extension module by audio line. (If there is no extension module, the “Ext_Bus” don’t be connected.)
- B. Adjusting DIP switch and set the parameter of communication, and switch “PWR” to OFF. And then switch “PWR” to 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 to complete the boot.
- D. Connect the CT to the cable to be measured. The buckle has no directionality, but after the buckle, you must confirm that the opening is completely closed.

Before the CT
be buckled



After the CT
be buckled



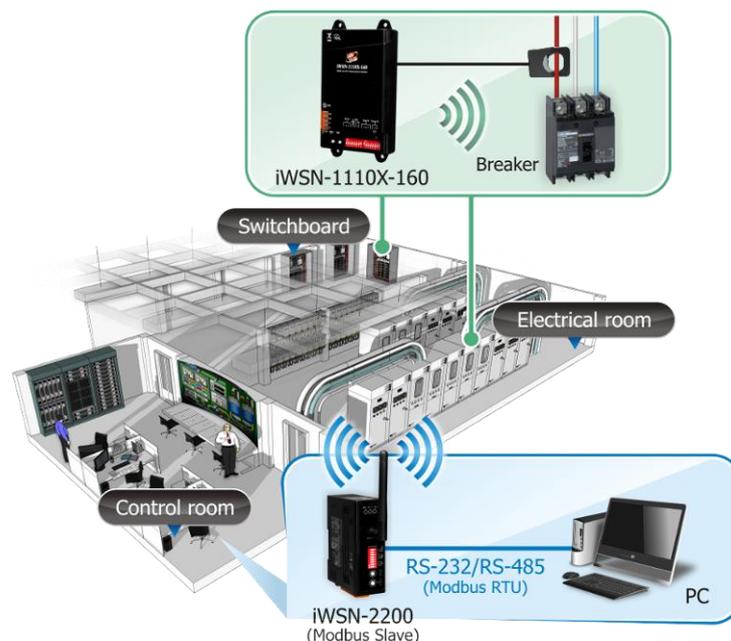
Confirm the opening is
completely closed

Note :

1. if you need to remove the terminal lines, always detach the CT before removing the CT terminal lines. Otherwise the CT may develop open-circuit secondary voltages which may be hazardous to personnel or damaging to the CT or equipment connected in the secondary circuit.
2. The external CT's are fragile, please handle with care.
3. The current input of the iWSN-1120X series only supports the factory-attached CT.
4. To install CT's correctly, please ensure the CT lines sequences is right before clip the CT's onto the power cable of the monitoring equipment.
5. Please select the appropriate size CT for different size monitoring equipment cables: power line diameter $<\Phi 24$ using 200A CT, $\Phi 36$ using 400A CT.
6. The maximum current value cannot exceed the CT rating.

6 Application example

The module will measure the current data and transmit automatically to iWSN-2200 by wireless. The user can use computer to read the data in iWSN-2200 by Modbus RTU protocol.





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. The supplied meter is not a user-serviceable product.

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. If the problem concerns a particular reading, please have all meter readings available. When returning any merchandise to ICP DAS, a return SN. Is required.