

iXN-7CT5 Series

iWSN Series Expansion Module

Features

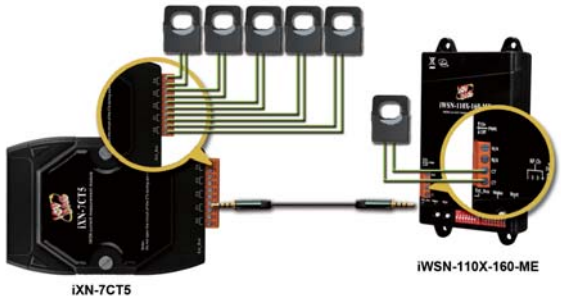
- Supports multi-channel IO expansion
- Powered by iWSN sensing module
- Removable screwed terminal block for easy maintenance
- Offers wall-mount mechanism and magnet for installation
- Allows connecting different measurement range of CTs in one expansion module

Introduction

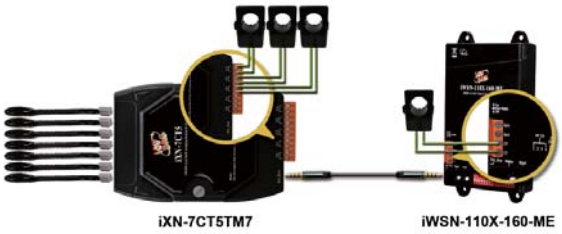
In order to upgrade the flexibility and expansibility of iWSN sensing module, the iXN expansion module is developed to connect to the iWSN sensing module. By means of iXN expansion modules, the iWSN sensing module can offer more current and temperature measurement channels. The iXN expansion module is energized by iWSN sensing module so that there is no external power supply needed. For convenient setting up and maintaining the application, the iXN expansion module provide removable screwed terminal block, wall-mount mechanism and magnet adsorption for installation, and also allows connecting different measurement range of CTs to fit various applications. More kinds of IO interface will be designed to rich the iWSN functionalities and unleash the power of iWSN sensing modules.

Applications

1. iWSN sensor and iXN-7CT5 connection diagram



2. iWSN sensor and iXN-7CT5TM7 connection diagram



System Specifications

Model		iXN-7CT5	iXN-7CT5TM7
CT			
Split-core CT Channel Number		5	
Split-core CT Type		Φ16mm (100A), Φ24mm (200A), or Φ36mm (400A); 8 m wire	
Input Voltage		Maximum 500VAC, 60 Hz	
Accuracy		±3% or ±0.3A	
Thermistor			
Channel Number		0	7
Measurement Temperature		0 °C to +80 °C	
Accuracy		±2 °C	
Installation		Wall-mount or magnet adsorption	
Power			
Input Type		iWSN sensing module provides power through the audio line.	
Power Consumption (Included iWSN-110X-PCT-ME) (*1)	1-sec Tx Duty	20 A	21 A
	10-sec Tx Duty	12 A	13 A
	30-sec Tx Duty	11 A	12 A
	60-sec Tx Duty	11 A	12 A

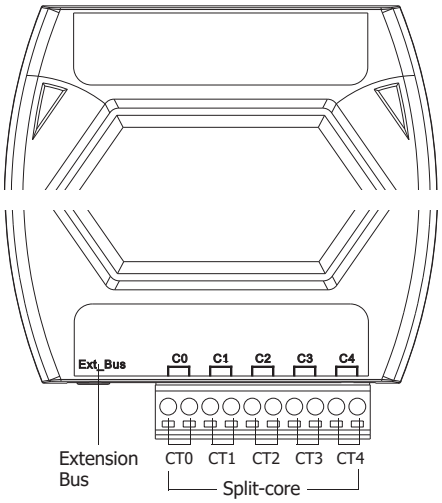
Model	iXN-7CT5	iXN-7CT5TM7
Mechanical		
Flammability	Fire Retardant Materials	
Dimensions (W x L x H)	72 mm x 115 mm x 35 mm	
Installation	DIN-rail or magnet adsorption	
Environment		
Operating Temperature	0°C to +45°C	
Storage Temperature	-20 °C to +50 °C	
Relative Humidity	10 ~ 90% RH, Non-condensing	
Certification	CE	

(*1) The minimum current required in the AC cable for balancing module's power charging and power consumption.

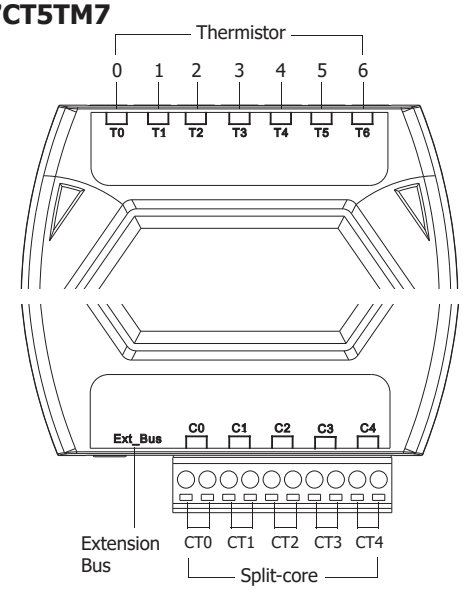
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Appearance

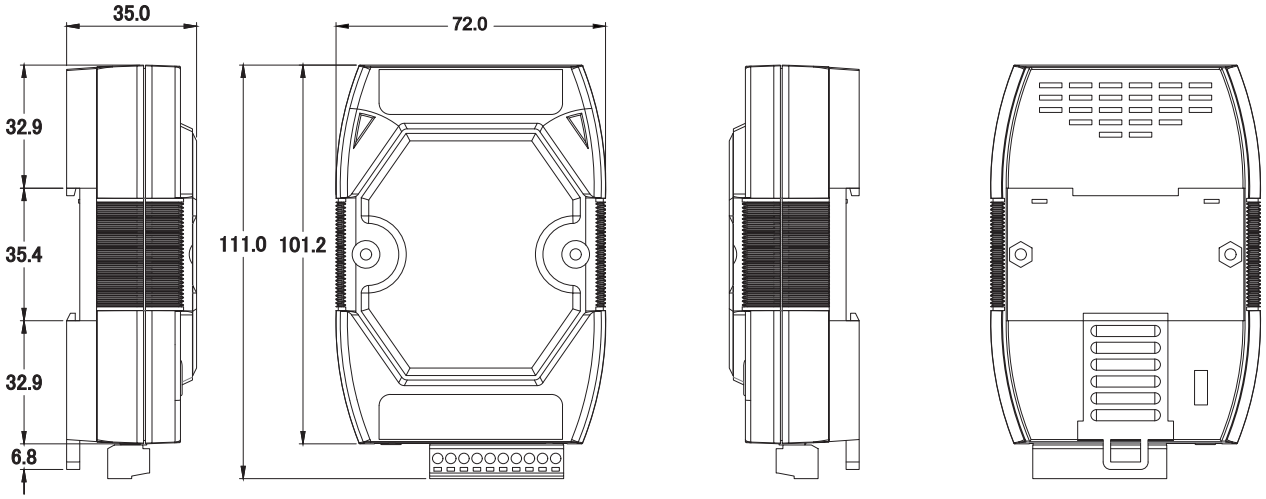
iXN-7CT5



iXN-7CT5TM7



Dimensions (Units: mm)



Left Side View | Front View | Right Side View | Rear View

Ordering Information

iXN-7CT5 CR	iXN extension module with five current measurement channels. (Without CTs)(RoHS)
iXN-7CT5TM7 CR	iXN extension module with five current measurement channels and seven thermistor channels. (Without CTs and thermistors)(RoHS)

Important Note:
1.The iXN series expansion module needs to be used with iWSN sensing module. Users can refer to the iWSN-110X or iWSN-110X-RCT series module according to their needs.
2.The iWSN sensing module measurement information must be collected through the iWSN receiver. Users can refer to the iWSN-200U or iWSN-200E module according to their needs

Accessories

iWSN-110X Series	iWSN current measurement module (RoHS); current measurement channel x 1, expansion interface x 1 (optional 100A/200A/400A CT)
iWSN-110X-RCT Series	iWSN current measurement module (RoHS); current measurement channel(for RCT) x 1, expansion interface x 1, 1000A RCT x 1, with 200A/400A CT x 1 (charge only)
iWSN-200U	iWSN data concentrator with RS-232/RS-485 serial port (RoHS)
iWSN-200E	iWSN data concentrator with Ethernet port (RoHS)
CA-SCT16I-100A-L080	8 m 100A Φ16mm Split-Core CT
CA-TM-MS-050	5 m Metal plug thermistor

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