

Trinatracker Smart Controller

NCU

Track and Boost Your Energy



Automatic and manual operation mode



Wind protection mode, snow mode



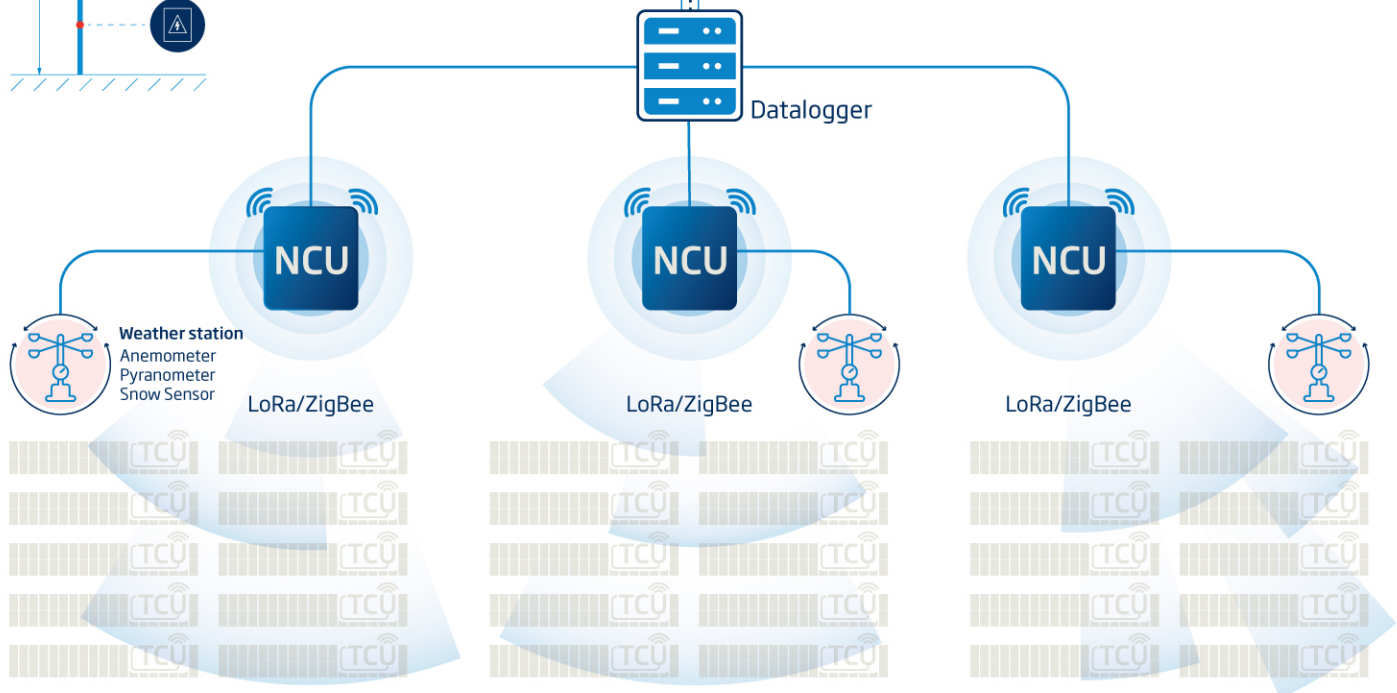
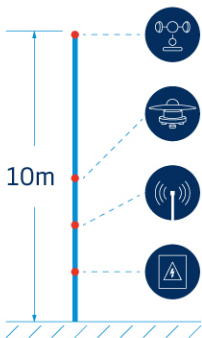
Rain cleaning mode (angle settable)



Specified angle operation mode



Manage up to 150 TCU and 1 weather station



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Trina Network Control Unit

Controller Electrical Specifications

NCU

Characteristic Parameters

Input

| | |
|--------------|--------------------------------|
| Power Supply | 90~132 VAC / 180~264 VAC (L+N) |
|--------------|--------------------------------|

Control

| | |
|--------------------|-----------------|
| Control Unit | ARM Cortex - M3 |
| Tracking Accuracy | < ±1° |
| Parameters Setting | PC Software |

Power Consumption

| | |
|--------------------------|--------------|
| Daily Energy Consumption | 0.04 kWh/Day |
|--------------------------|--------------|

Parameters Setting

| | |
|------------------------------|-----------|
| GPS Signal | Yes |
| High Wind Trigger Threshold | PC |
| Heavy Snow Trigger Threshold | PC |
| Latitude and Longitude | Automatic |
| Time Zone (Winter Time) | Manual |

Function

Protection and Alarm

| | |
|-------------------------------------|-----|
| Weather Sensor Alarm | Yes |
| Communication Interruption With TCU | Yes |
| GPS Module Failure Alarm | Yes |

Communication

| | |
|-----------------------------------|-------------|
| Wireless Communication (with TCU) | LoRa/ZigBee |
| Protocol | Modbus |

Environmental information

| | |
|----------------------------|-----|
| Wind Speed | Yes |
| Irradiation | Yes |
| Snow Thickness Information | Yes |

General Data

| | |
|-----------------------|----------------------------|
| Tracker Type | Trina Tracker |
| Box Material | Q235B/Aluminum |
| Installation | Beam Hanging |
| Enclosure Testing | IP65 |
| Weight | <8kg |
| Dimensions | 495*495*300mm (L*W*H) |
| Operation Temperature | -30° ~ 60°C ⁽¹⁾ |
| Altitude | <4000m |

⁽¹⁾Standard configuration. Different conditions under request, please consult TrinaTracker