



Trina Smart Cloud

Tracker-side Photovoltaic Power Station Monitoring Platform



Intelligent and accurate O&M

- Dynamically monitor the operating status of trackers
- Real-time fault alarms
- Key parameter analysis
- Motor diagnostic and pre-warning



Reduce power generation loss

- Share meteorological data between NCUs
- Reduce power generation loss caused by sensor fault and O&M



Digital map positioning

- Precisely locate the position & status of each tracker
- Status display & positioning of key components of trackers
- 3D digital modeling dynamic display of trackers layout and status



Precise and intelligent control

- Data query
- Control tracker's operation mode & target angle
- Set tracker's parameters individually & in groups



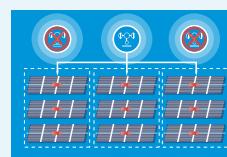
System security and stability

- Multi-role permission management
- Network security



Monitoring & recording

- Dynamically monitor the operating status of trackers
- Store key information of trackers



Meteorological data sharing

- Share meteorological data such as wind speed and irradiance
- Reduce the number of sensors
- Reduce power generation loss caused by sensor O&M



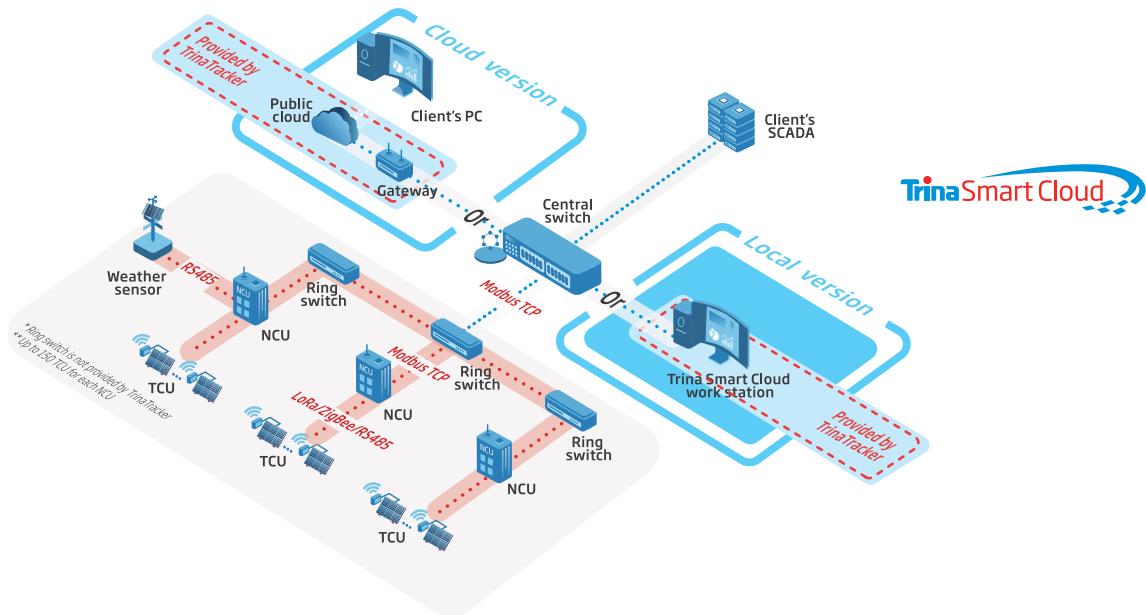
Safety guarantee

- Multi-role permission management
- Log management enables historical traceability
- Grant diversified operation permission
- Hierarchical precision management

Features

 Basic monitoring and control	 Cloud version
NCU & TCU status monitoring	Cloud server deployment
Display of wind speed & irradiance information	Access via web from anywhere, anytime
Working mode switch	Remote control management
Data sharing	Multi-station management
Motor diagnostic and pre-warning (optional)	Data storage on cloud server
3D digital map (optional)	Auto hail protection (optional)

Network Architecture Diagram



Hardware Parameters

Content	Configuration
Local version	
Server form	Tower server/Rack server
CPU	Xeon series
RAM	16-32G
Network card	Dual-port gigabit ethernet card
Hard disk	1.2-2.4TB
Others	Monitor, mouse, keyboard, network cable
Cloud version	
Server	Gateway
Cloud service	Microsoft Azure
Others	Network cable

The actual configuration parameters of hardware will be chosen based on the specific project requirements to optimize the solution.



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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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TrinaTracker