Weincloud
https://www.weincloud.net/
Weincloud
A Cloud-Based Solution for Monitoring and Visualization
Electronic Components
Admin
Factory_Vietnam
Device_Vietnam
HMI 365
Factory_Japan
Super User
Device_Japan
HMI 789
HMI 106
Overhaul_Japan
HMI 430
HMI 731
User
10%
25%
45%
20%
Warning

WEINTEK

What is **Weincloud** ?

Weincloud is a cloud solution designed for HMI, featuring two key services: Dashboard and EasyAccess 2.0.

Dashboard uploads real-time data from field devices to the cloud, offering a platform for analyzing trends and making decisions. EasyAccess 2.0 enables remote access to the HMI in the factory for diagnosis and troubleshooting whenever an alarm is triggered. HMI or PLC project updates can also be performed via EasyAccess 2.0 without the need to dispatch personnel to the site.

Weincloud

Dashboard

- Overview of Multiple HMIs
- User-friendly Web-based Interface
- HMI Data Updated Per Second

EasyAccess 2.0

- Remote HMI Access for Troubleshooting
- PLC Control via Pass-through
- Real-time Alarm Push Notifications

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Four Key Challenges in Conventional Production »

Laborious Digitization

Developing self-hosted cloud-based solutions demands significant time and resources.

Manual Data Recording

Manual records may cause errors and loss, impacting management efficiency.

Remote Monitoring Limitations

Critical alarms may be missed during equipment failures.

Incapable of Forecasting Future Conditions

The inability to analyze future scenarios raises maintenance risks.

Dashboard Delivers 4 Benefits for Business »

- **Save Development Costs**
  The ready-to-use cloud platform reduces both development time and costs.
- **Eliminate Hardware Deployment**
  Device data uploads directly to the cloud without the need for additional IPCs.
- **Bridge OT and IT Gaps**
  Creating a smart manufacturing ecosystem that enables efficient and secure data transmission.
- **Get Access to Data**
  Users retain ownership of raw data for subsequent analysis and industry forecasting.

Four Key Challenges in Remote Maintenance and Management »

Complex Remote Setup

Router configuration requires complex network parameter settings.

Unable to Remote Troubleshooting

Maintenance requires on-site personnel deployment.

Limited Real-time PLC Access

Production conditions cannot be effectively monitored.

Inconvenient Access

Additional software is required for monitoring, hindering management.

EasyAccess2.0 Delivers 4 Benefits for Business »

- **Easy Setup**
  Routers are not required each time with P2P technology.
- **Access Web Monitoring Anytime**
  No extra apps are required—take your data wherever you go.
- **Connect PLCs via HMI**
  On-site PLCs can be connected via pass-through function, minimizing factory downtime.
- **Reduce On-Site Maintenance Workload**
  Remote troubleshooting, project updates, and parameter modifications are supported.

Topic 02

Weincloud Applications

Scenarios and Case Studies

Smart Manufacturing

The goal of Industry 4.0 is to innovate industrial technologies while integrating existing technologies, sales, and user experiences to create smart factories. Weintek's HMI solutions facilitate the transition to smart manufacturing by helping businesses overcome bottlenecks.

- Processes Upgrade
- Professional Cloud Platform
- Support Improvement

Fast OT/IT Integration

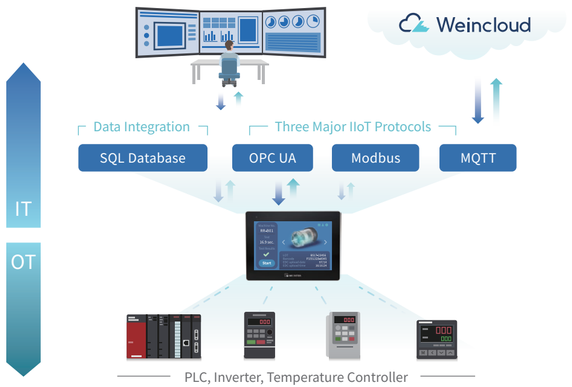
HMIs collect raw data from PLCs and controllers via SQL/MySQL for seamless integration with IT.

Customizable Cloud Platform

Weincloud provides a dedicated cloud platform that seamlessly integrates with backend databases via MQTT and OPC UA.

Remote Monitoring to Enhance Service

Weincloud can be used to track machine usage for consumable replacements and maintenance, reducing response times and boosting customer retention.



Smart Building

Smart buildings have evolved from individual system automation to integrated technologies driven by 4G/5G advancements, moving toward greater humanization and integrated intelligence. This trend presents higher demands for effective building management. Weintek offers solutions through HMIs and the Weincloud system to enhance automation efficiency and convenience.

Seamless Communication

- HMIs support Modbus, BACnet, and KNXnet/IP, facilitating seamless equipment integration with routers and controllers.
- Lightweight MQTT protocol enables real-time IoT data collection—weather, smart plugs, and smart meters—integrated into the system.

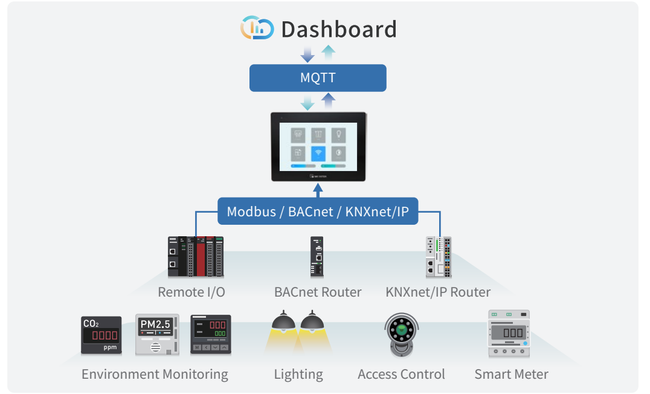
Real-Time Monitoring & Analysis

- Dashboard provides a clear view of system data (e.g., temperature trend or power usage), helping managers quickly obtain an overview of the status.

Smart Alarms & Trigger Settings

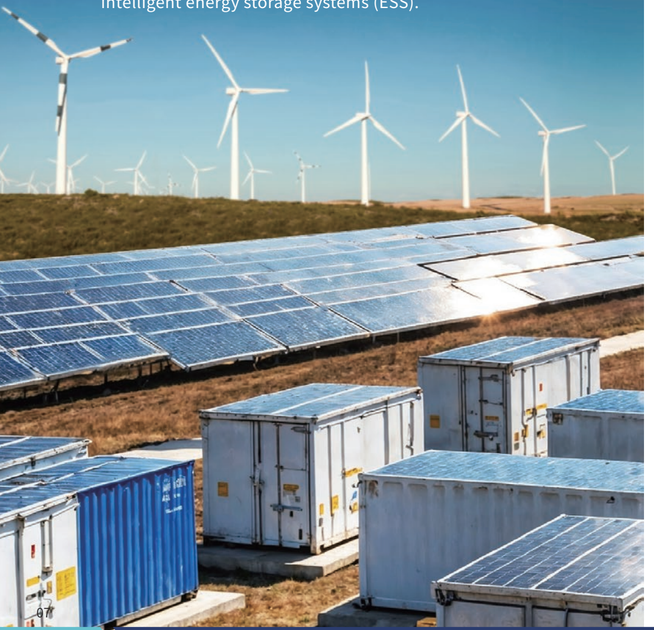
- EasyAccess 2.0 enables conditional alarm settings for responsive remote debugging, minimizing manual intervention and ensuring system stability.

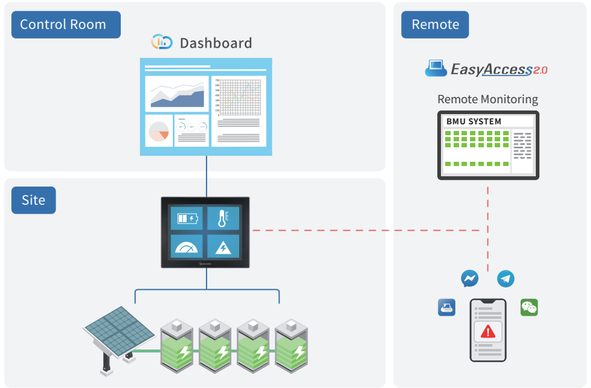
- BACnet & KNXnet/IP Support
- Localized Control Management
- Real-Time Notifications



Energy Industry

With growing global awareness of carbon reduction and environmental sustainability, energy conservation has become crucial for all industries. Major energy-consuming technology companies face challenges in balancing peak and off-peak demands while ensuring stable power supply. Weintek enhances energy management efficiency with intelligent energy storage systems (ESS).





Smart Energy Management

Dashboard monitors remote factory power usage, providing visual data analysis to track energy consumption and recharge status.

Remote Monitoring

EasyAccess 2.0 can access fire management systems, offering remote monitoring, alerts via in-app notifications, and remote maintenance capabilities.

All-in-One Energy Solution

The smart ESS manages peak and off-peak power use, reducing costs and stabilizing power supply to enhance operational efficiency.

- Minimized Manpower
- Remote Troubleshooting
- Efficient Demand Management

Green Industry

Water is a vital natural resource facing escalating pressure from population growth and industrialization. Wastewater, laden with pollutants such as oils, suspended solids, and heavy metals, poses threats to both the environment and public health.
Weintek optimizes wastewater treatment processes to enhance sustainability and protect the environment.

Authorization Management & System Security

The Dashboard features robust user authorization management and operation logging, ensuring traceability and safety of operation.

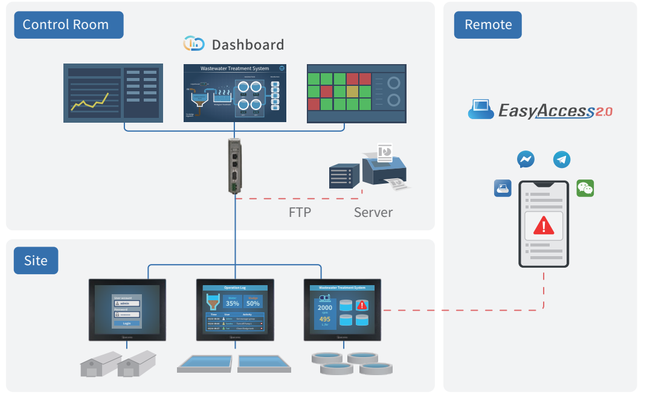
Real-Time Notifications & Remote Monitoring

EasyAccess 2.0 facilitates remote connections and sends push notifications to alert responsible personnel. Its pass-through feature enables remote access to the PLC via the HMI for tuning and troubleshooting.

Data Management with FTP Client/Server Transfer

In addition to USB backups, the HMI supports two-way FTP for backing up reports and screen captures, ensuring unified data formats for simplified archiving and retrieval.

- Thorough Access Management
- Remote Monitoring
- Efficient Data Management



Dashboard

A Cloud Monitoring Platform

Dashboard **visualizes on-site device data**, allowing users to monitor real-time status anytime, anywhere through a web browser.

Dashboard

Designer-Friendly

- **Intuitive User Interface**
  The drag-and-drop editor enables quick and easy dashboard creation.
- **Versatile Widgets Features**
  A variety of widgets are available to design dashboards tailored to real-world needs.
- **Complete Data Overview**
  Data from various sources can be aggregated and displayed on a single screen.
- **Detailed User Permission**
  Designers can assign project access levels and set data to read-only to prevent unintentional modifications.

Management Boost

- **Secure Account Management**
  Account security is enhanced through email verification or MFA.
- **Real-time Data Updates**
  Tag data updates every second, providing managers with a quick overview of on-site status.
- **Visualized Alarm Notifications**
  The built-in alarm and logging features provide clear visibility of alerts, allowing users to easily monitor the latest status.
- **Shareable Web Dashboard**
  Managers can access the published dashboard via a shared link with or without logging in.

Dashboard Project

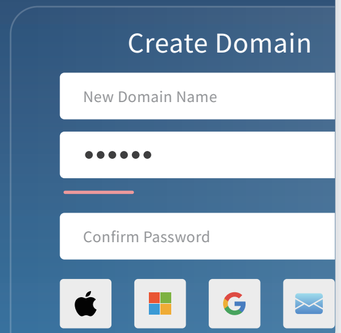
Design the First Dashboard!

Start your 3-month free trial to build **your first Dashboard project** and share it in the cloud for access anytime, anywhere.

6 Steps

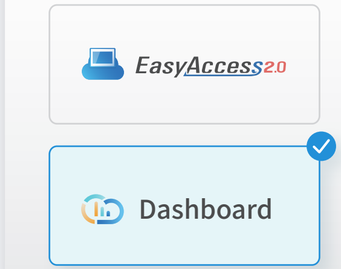
1 Create a Weincloud Domain

Visit the Weincloud website to register a Domain account or sign up instantly with social login.



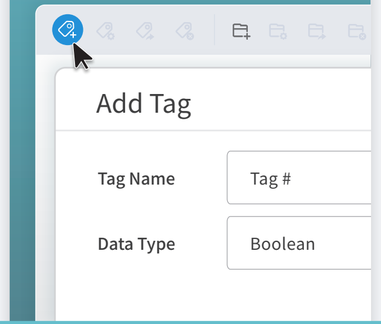
2 Activate Dashboard Service

Enable the Dashboard service and add the HMI to the domain.



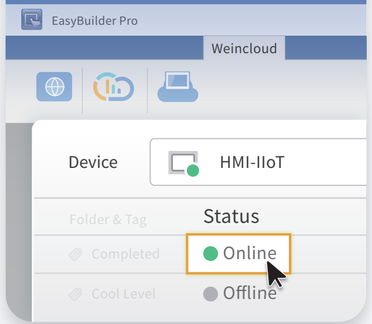
3 Add Data Source Tags

Go to the [Data Source] page in Dashboard, select the HMI to monitor, add tags, and set data types.



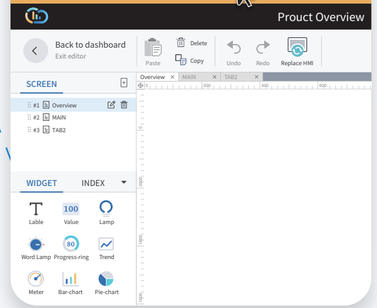
4 Map Tags to Device Addresses

Open the HMI project in EasyBuilder Pro and import the configured data source tags. Integration is complete when the tag status in Dashboard shows [Online].



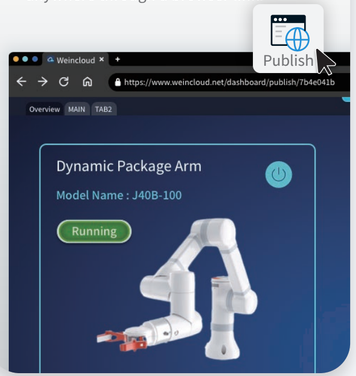
5 Create and Edit a Dashboard

In Dashboard, go to [Project] page, click [Create New Project], enter a project name, and start editing the dashboard.



6 Publish the Dashboard

Once the dashboard design is complete, click [Publish]. Access it anytime, anywhere through a browser link.



Are All It Takes

See Full Tutorial

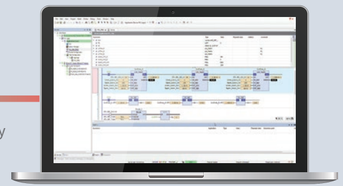
EasyAccess 2.0

A Remote Connection Tool for HMIs

With EasyAccess 2.0, configuring firewalls or routers is unnecessary.
Activate HMI remote connection in just 30 seconds and update projects anytime.

PLC Pass-through

P2P Technology



Remote connection with PLC via HMI for tuning

Push Notifications via EasyAccess 2.0, Messenger, Telegram, and WeChat

Cross-Platform Support

Free from platform dependency, EasyAccess 2.0 runs on smartphones, tablets, and computers.

PLC Pass-Through

After connecting to the HMI, enter the target PLC's IP address to monitor it through the HMI.

Real-Time Alarms

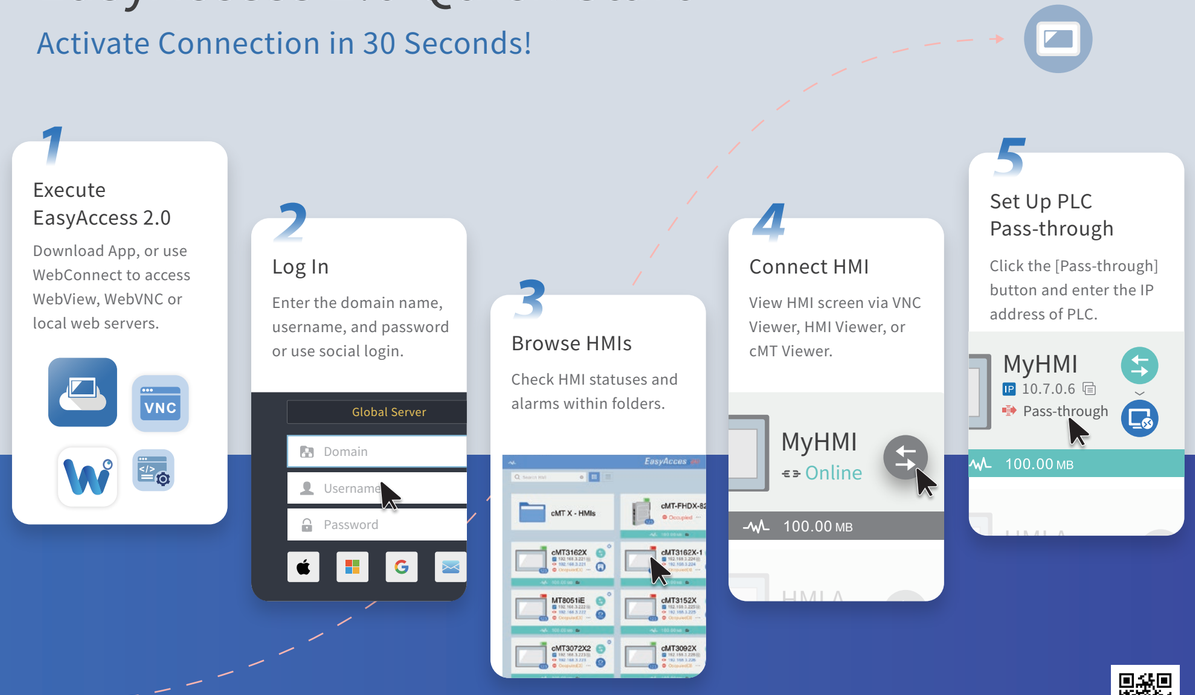
Receive push notifications through Messenger, WeChat, and EasyAccess 2.0 App.

Secure Data Encryption

Utilizing TLS/SSL encryption, EasyAccess 2.0 has passed third-party security assessments.

EasyAccess 2.0 Quick Start

Activate Connection in 30 Seconds!



See Full Tutorial

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