



Your Open Operating System Where IIoT Meets Automation

Meet **u-OS**, an open operating system uniquely engineered for Industrial IoT and Automation. u-OS enables seamless integration of automation and digital technologies in one unified environment.

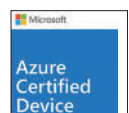
u-OS = Open. Experience unmatched integration with u-OS's open architecture, effortlessly incorporating your proprietary applications and cloud connectivity for simplified edge computing.

u-OS = Flexible. Tailor u-OS to your unique needs with an intuitive App Manager, facilitating access to diverse apps like CODESYS and Node-RED for endless innovation and scalability.

u-OS = Independent. Embrace freedom with u-OS, built on open standards like Linux and Containers to ensure future-proof resilience and easy system migration.

Your benefits at a glance

- **Made for maintenance:** Easy cloud-based diagnostics & fleet management for your remotely deployed devices
- **Seamless integration:** Merge proprietary & 3rd-party apps effortlessly
- **Future-proof:** Built on open standards like Linux, OPC-UA, and Docker
- **Vendor independence:** No lock-in, more choices
- **Universal compatibility:** Supports multiple fieldbus protocols
- **Easy scalability:** Expand and adapt with cloud-based device management
- **Migration-ready:** Transition to new systems without the hassle



u-control

High-performance modular controllers with u-OS + Data Hub built-in

Data Hub

The Open Data Fabric for u-OS

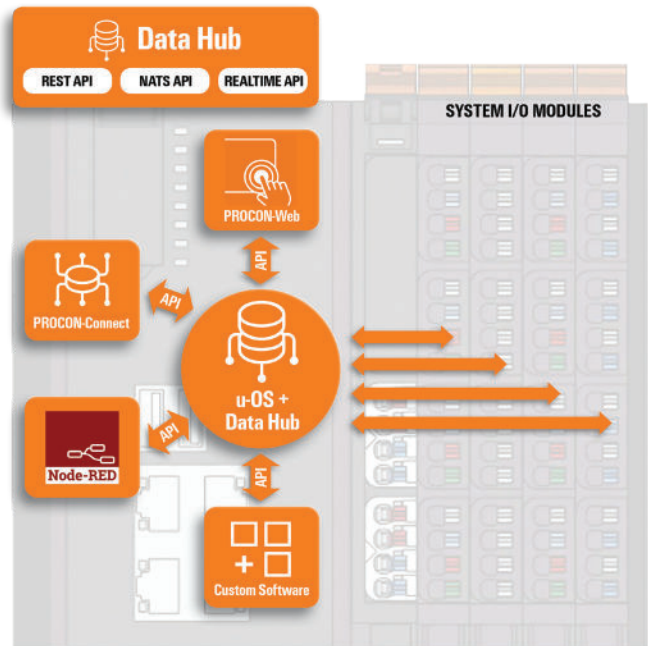
New in u-OS 2.2.0, Data Hub unites every app, controller or sensor offering the only service that supports three open Application Programming Interfaces (APIs): REST, NATS, and REAL TIME — a feature that is unprecedented for the industry.

Experience the promise of Industry 4.0 with a truly open system that allows for seamless data exchange between applications without the need for complex programming. Machine builders, system integrators and plant operators can easily interact with the system's I/O modules to access essential data and make variables from one application visible to another.

Advantages of Data Hub

Choose Data Hub and put an open-standards engine at the heart of your automation infrastructure.

- Robust variable mapping and no middleware licenses. Removes proprietary gateways, cloud lock-ins or requirements for recurring licenses.
- Allows users to connect Node-RED flows, PROCON-Connect data aggregates or any customized application in just a few clicks.
- Runs across u-control PLCs and edge gateways for seamless project scaling.
- Built-in security with role-based access and authentication.



With the u-OS open operating system + Data Hub, users can rely on seamless data exchange between applications and interact with system I/O modules, without the need for complex programming.

u-OS: At the Heart of our u-mation Family



M3000/M4000 PAC controllers

High-power Programmable Automation Controller (PAC) engine for demanding applications.



u-control 2000

One of the most compact and modern control systems.



u-remote

The best remote I/O system from the pioneer of connection technology.



CODESYS on u-OS

Harness the power of the CODESYS APP, fully integrated into the u-OS platform. Whether you're an automation expert or a newcomer, CODESYS provides a robust, user-friendly programming environment tailored to your needs.



www.weidmuller.com/u-OS

Weidmuller, Inc
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
Website: www.weidmuller.com
Email: customerservice@weidmuller.com

Personal support can
be found on our website:
www.weidmuller.com/contact

10/2025 | LIT2126