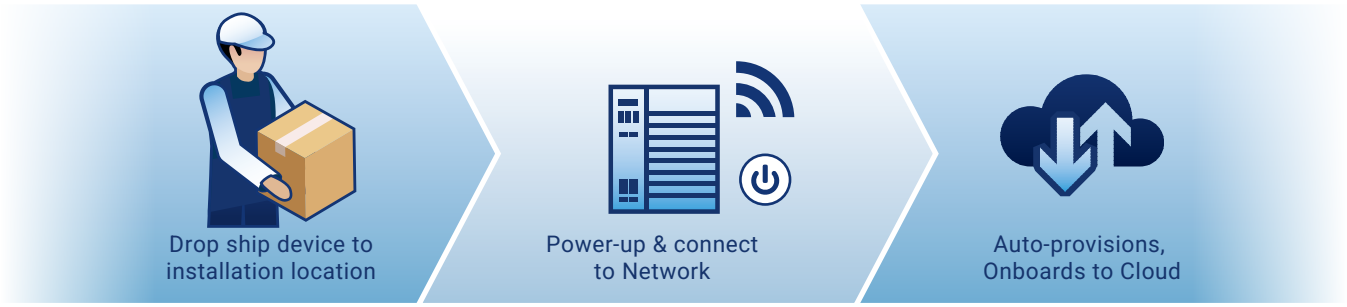
ASRock Industrial

AI FDO

ASRock Industrial FIDO Device Onboarding



Key Features

- Zero-touch customer image installation
- Can greatly lower process costs
- Fast and more Secure
- Supports any Hardware
- Supports both Internet and on premise environments
- Late Binding
- Industry standard via FIDO Alliance

Product Overview

The integration of FDO simplifies the manufacturing process significantly, providing hardware flexibility and enabling ASRock Industrial to offer various FDO-enabled devices based on customer demand. From factory production to the end-user, the entire process requires no manual configuration on the system. Once booted on and connected to the internet, the customer image is automatically installed, and each system can have its own dedicated customer image. Even if the image is pre-installed for the customer, individual systems may still require manual configuration during the boot process. FDO can reduce the costs associated with handling individual differences during system deployment. After factory production, it may be discovered that the customer image needs modification, requiring rework. With AiFDO, the customer image can be changed before the product is booted up.

Product Features

Seamless Customization

Users can install their own image, and applications effortlessly, tailoring each device to specific needs.

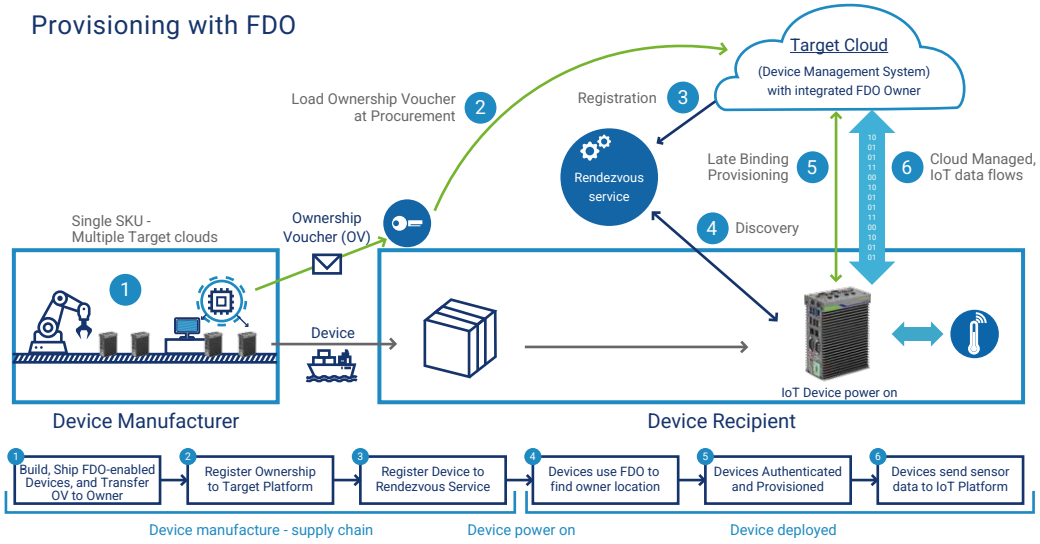
Automated Onboarding & Activation

The provisioning process happens in parallel with activation, streamlining deployment.

Scalable & Efficient Deployment

Designed for enterprises, AiFDO enables large-scale device provisioning with minimal effort

How it works



AiFDO Device Onboarding Workflow

1. Device Manufacturing & Ownership Voucher Creation

- ASRock Industrial manufactures AiFDO-enabled devices
- Each device is provisioned with **FDO credentials** and an **ownership** voucher (OV) is generated
- Devices are shipped through the supply chain without pre-configured OS

2. Device Registration & Ownership Transfer

- The ownership voucher is registered by the system integrator or end customer
- The device is assigned to a **Rendezvous Server**, ensuring late binding support

3. Zero-Touch Deployment & Discovery

- The device is powered on and connects to the AiFDO Rendezvous Server
- The server verifies the device and redirects it to the **Owner Server** for OS and application deployment

4. Automatic Configuration & Image Installation

- The device downloads and installs the **customer's OS image** (Windows/Linux) from the **Owner Server**
- Configuration files and applications are set up automatically

5. Device Activation & Completion

- After successful installation, the system reboots
- The device is now fully operational with the customer's pre-defined settings
- The customer can manage updates or configurations remotely via the Device Management system

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Differentiators

- Compared to traditional onboarding, AiFDO eliminates manual configurations.
- Supports both internet-based and on-premise deployment.
- Reduces rework by allowing late-stage image changes.
- Industry-standard compliance via FIDO Alliance.

Specifications

Specifications	Description
Recommended System Requirements: FDO Device : iEP-5010G series system	• CPU: Onboard Intel Atom® x6425RE processor • Memory: DDR4 3200 MHz SO-DIMM W/T 32GB (=16GB x2) • Storage: M.2 2280 PCIE3.0 W/T SSD 128GB • Adapter: FSP 19V 65W • OS: Ubuntu 22.04 LTS
Server Deployment Requirements Rendezvous Server & Owner Server	• CPU: 2 vCPUs • Memory: min. 4 GB • Storage Capacity: min. 60 GB
Network Environment Requirements Rendezvous Server & Owner Server	• IP Address: Static IP (If no DNS server set up in the network environment)

Order Information

Part Number	Description
TBD	AIFDO Experience Package
TBD	[Formal] FDO Enable System
TBD	[Formal] Rendezvous Server and Owner Server - Setup Fee