

# Revolutionizing Smart Vending Machine Operations in Japan with One Magic Box



Vending machines have long since propped up Japan's retail backbone. Yet, a rapidly shrinking labor force is putting exponential profits at risk. Is Allxon's external integrated OOB solution the key to solving this dilemma?

### Why are Smart Vending Machines So Popular in Japan?

Smart vending machines have completely transformed how people consume products in Modern Japan. These automated boxes incorporate advanced technology, Internet connectivity, and smart analytics to provide up to date inventory checks and purchase trends to tailor products to customer needs. Especially now, in the Post-Covid era, the preference for contactless shopping and 24-hour service for the perpetually busy Japanese society is only increasing.

### Smart Vending Machine Operation Complexities

Today, more than 5 million vending machines are scattered throughout Japan. However, a steady decreasing population means there is a reduced workforce and limited time available to maintain unexpected vending machine glitches and malfunctions. The result being continuous business expenses, losses, interrupted customer service, and dissatisfaction.

Advanced remote management and monitoring (RMM) technology is the most logical solution, but keep in mind there are millions of machines on the ground running. Wasted travel time and exorbitant costs for mass machine recall in order to integrate new RMM infrastructures is simply not feasible. How then can RMM improvements be made to ensure vending machine functionality and profitability?

### Advanced Aftermarket Out-Of-Band Solutions

Allxon moves beyond traditional OOB technology by introducing a revolutionary external integrated solution. This “magic box” provides three game changing enhancements that will propel the edge AI and Smart Vending Machine industry.

The power of Allxon’s external integrated solutions include:

1. Instant OOB connection via an external attachment, eliminating the tedious task of accessing the internal edge device box of the vending machine.
2. Wireless network connectivity that significantly reduces manual labor costs and time wasted to build additional underground network cables.
3. The most cost-effective external OOB technology to date, connecting Managed Service Providers (MSP's to smart vending machines across Japan and exercising advanced RMM solutions at scale.

Allxon external integrated solutions utilizes the powerful remote Out-Of-Band Management solutions of Allxon SwiftDR for Power Cycling to instantly solve technical issues.,. At first sign of abnormalities, instant alert notifications are sent back to Allxon Portal so MSPs can immediately refresh and restart operations by powering the vending machine OFF and back ON. When operations freeze or appear unresponsive, force shutdown control can be used to resolve vending machine system crashes.

## Finding New OOB Solutions to Stay Ahead of the Edge AI

### Industry

The advanced AI of smart vending machines, sheer variety of products sold, and convenience provided for the everyday customer is unparalleled. Unsurprisingly it is an industry looking at a projected revenue of 50 million USD in annual sales. So, with the help of Allxon external integrated solutions, the seamless and continuous running of these machine operations is ensured as are its immense profits.