

ADLINK Edge™ Smart Pallet



The Challenge

Automating Warehouse Logistics for Efficiency, Accuracy & Value

Warehouse logistics operations shipping high volumes of packages every day face a growing challenge of increasing automation to improve efficiency and accuracy as well as maintaining competitive advantage and meeting customer expectations. Existing processes can be slow, inefficient manual work which is prone to errors. Problems include packages being delivered to the wrong place, being lost or stolen or containing the wrong products. Often there is no clear view on inventory during packaging, palletization and distribution with different unconnected systems making automating and monitoring the process seem an impossibly complex, intrusive and expensive task.



The ADLINK Solution

ADLINK Edge™ Smart Pallet

ADLINK Edge™ Smart Pallet is our edge IoT solution for palletization accuracy and profitability using machine vision AI to provide fully automated visibility of packages and pallets and ensure they are in the right place at the right time. Smart Pallet replaces traditional barcode hand-scanning by using AI and Vision Machine Learning (ML) to help automate pallet stacking and box finding in the warehouse, removing errors in inventory from misplaced and non-scanned items. As a smart solution, Smart Pallet includes all the hardware, software and configuration needed including ADLINK's leading NEON Smart Cameras, ADLINK Edge™ IoT software for real-time connectivity and apps for machine vision. Our end-to-end integrated system connects new and existing equipment, captures multiple image data streams and applies high performance processing power to enable machine learning and inferencing at the edge making deployment and integration faster, easier and more cost effective so our industrial customers can optimize efficiency and drive business value.

Benefits

Smart Pallet optimizes efficiency and drives value by automating high volume warehouse logistics operations.



Increase Speed & Productivity

Increase the number of items that are shipped daily by automating manual processes and improving ergonomics for warehouse employees for greater productivity.



Reduce Shrinkage

Keep inventory accurate and up to date in real-time, reducing errors in incorrect shipping as well as losses due to theft, damage or spoilage during process.



Improve Customer Experience

Provide competition-beating levels of customer satisfaction in warehouse logistics with speedy, accurate, on-time delivery metrics for improved customer experience.



Define New Products or Services

Get full traceability of orders and enable custom-built palletization to meet customer requirements for mixed item loads quickly and accurately without spoilage – especially useful in food and beverage distribution.

ADLINK Edge™

ADLINK's Edge IoT solutions are vendor-agnostic, built on open standards and architected with modular components for easy integration with any existing IT and OT system. ADLINK also integrates with a powerful partner ecosystem and this combined with our scalable, plug and play hardware, makes ADLINK deployments and integrations faster, easier and more cost effective so our industrial customers can optimize operational efficiency and drive business value and maintain their competitive advantage.

Features



Makes Palletization Intelligent

ADLINK Edge™ Smart Pallet connects and integrates quickly and easily between cameras, conveyors, automation systems, warehousing management systems and cloud enabling real-time communication between pallet, warehouse employee and back-end systems. Using AI at the edge, the solution enables ultra fast intelligence and automation by deploying vision data closest to its source decreasing latency and enabling real-time decision making and corrective action.



Achieve Business Value Now and in Future

ADLINK's solution integrates with your existing technologies and systems and provides the building blocks to enable you to flex, scale and evolve your palletization processes cost effectively and with minimal disruption. This means you can optimize process speed and efficiency, reduce shrinkage as well as improve accuracy of inventory and deliveries to enhance customer satisfaction and maintain competitive advantage now and into the future.

Case Study: Smart Pallet - Customer Confidential



Challenges

A high volume warehouse distribution and logistics operation required increased automation to replace manual scanning in order to improve accuracy and efficiency of loading packages on correct pallets, to improve worker safety and to reduce shrinkage.



Solution

ADLINK's machine vision-based IoT solution with smart cameras, IoT gateways and ADLINK Edge™ software was deployed to scan barcodes on pallets, cross-reference against inventory and stream data in real-time at the edge to warehouse management systems, ERP and employees.



Results

The solution has optimized operational efficiency by improving pallet loading speed, accuracy and efficiency. It has also increased employee productivity and improved worker safety as well as reducing losses from shrinkage.

Get started with ADLINK Technology Smart Pallet from \$6,500

Visit <https://www.adlinktech.com/en/Smart-Pallet> for more information