AIM-37

IMPROVING OPERATIONAL EFFICIENCY WITH PAPERLESS DATA MANAGEMENT

Introduction

A major industrial parts manufacturer founded over 30 years ago, is constantly developing innovative designs and manufacturing technology for chucks and other related components. Aligned with their commitment to deliver premium services to meet customer requirements, this industrial parts manufacturer recently evaluated the efficiency of its production lines and discovered consistent delays, errors, and inaccurate record keeping.

To address these issues, the industrial parts manufacturer decided to better their manufacturing execution systems (MES) and implement tablet devices to log data digitally, instead of using pen and paper. They chose the AIM-37, a 10" tablet equipped with the Windows 10 IoT operating system for further software development. Advantech's AIM-37 industrial-grade tablet features a slim and compact design, IP54-rated front panel, and various

value-added accessories, making it ideal for their application requirements. After conducting a system evaluation, the industrial parts manufacturer adopted Advantech's AIM-37 tablets for paperless data collection.

Solution Description

- Advantech's AIM -37 10" industrial-grade tablet
- Advantech's AIM-37 wall-mounted cradle with charger
- Advantech's stylus pen

System Requirements

- Industrial-grade tablet with wall-mounted charger and stylus pen
- 10" tablet equipped with Windows 10 IoT OS
- Scratch proof and IP54-rated protection from water and dust
- Stable, high-performance device with a long product lifecycle

Solution

Advantech's AIM-37 tablet provides a durable and trusted industrial-grade solution for critical factory environments. AIM-37 features an IP54-rated front panel that protects the system from dust, oil, and water ingress in order to prevent any interference in sensor function. Additionally, AIM-37 is equipped with Windows 10 IoT OS, which allows users to develop unique software for optimized control and management.

Paperless, Real-Time Data Collection for Enhanced Manufacturing

To improve manufacturing operation efficiency, the major industrial parts manufacturer implemented AIM-37 tablets with wireless communication capabilities to enable paperless, real-time data transmissions. With these tablets, real-time production data can be recorded and transmitted to a cloud-based server. This allows managers to remotely access and review the operating status and work in process (WIP)

of each production line. Additionally, they can configure the devices to send notifications when errors occur or if there is a slowdown in the production line.

Unique Mounting Kits for Battery Charging and Cable Management

The AIM-37 tablet includes an optional mounting kit that not only supports battery charging for sustainable power and long operation, but it is also compatible with

pole-mounting for confined spaces.

Benefits

- Slim, industrial-grade tablet delivers stable, high-performance computing
- Supports Windows 10 IoT OS to enable flexible software development
- Allows real-time data transmissions for remote management
- IP54-rated front panel protects against water, dust, and oil ingress

For more information on Industrial-grade Tablets, go to
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