

# Signage Display System for the Visual Factory



## Introduction

Visual Factory signage offers critical information on the factory manufacturing process that allows employees to visualize the pertinent details and function efficiently. As Visual Factory boards output their content, they are providing a continuous report on factory conditions, the data coming from automatic sensors and sometimes even manual input. As a founding principal in Visual Factory Management, these communication sources must have the data conveyed on the display through a reliable system, and in real-time.

## Solution

Most often the Visual Factory signage player itself is a system that resides in the manufacturing area. This mandates the use of an embedded PC system that is rated for harsh environmental conditions, and hosts the proper I/O and processing power for the display requirement.

As a visual factory signage player, [Fanless Embedded Mini PC ARK-1123H](#) is able to meet the need with a fanless, extended temperature design with the required I/O and compute power to drive the display. [Fanless Mini PC ARK-1123H](#) provides 2 x GbE and RS-232/422/485 to enable connectivity options to PLCs and/or databases running on either the cloud or on-site servers to use as content sources for the display board, regardless of the protocol. The quad core Intel® Celeron J1900 provides enhanced graphics to drive a reliable HDMI signal, and ideal processor for the application.

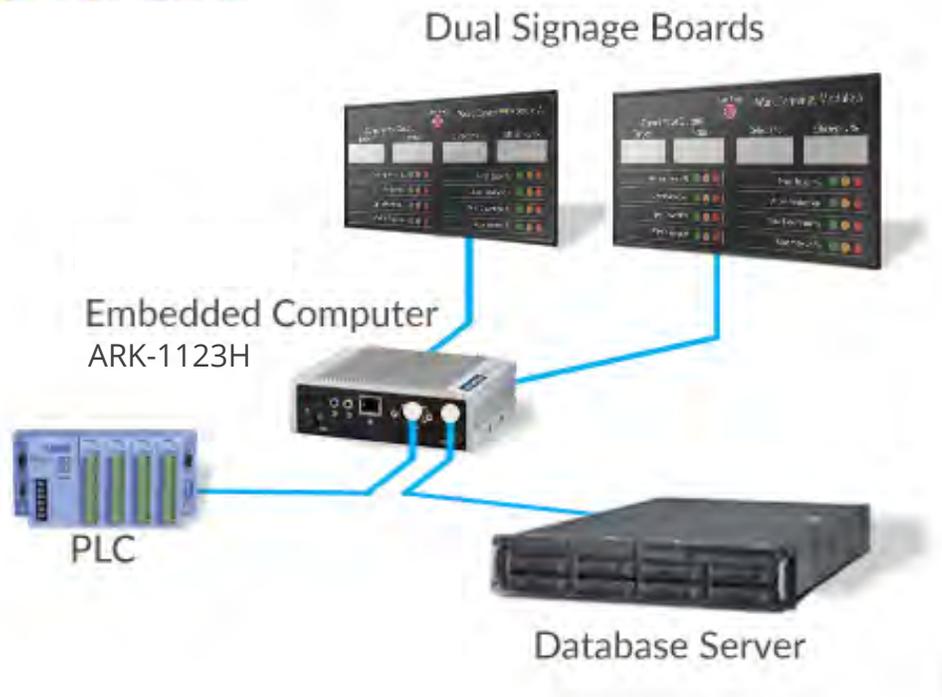
In this example, [Fanless embedded computer ARK-1123H](#) is running dual display signals to different teams on the manufacturing floor, pulling its content from a database server running a GbE signal via RJ-45, and a PLC output via Profinet. [Industrial Mini PC ARK-1123H](#) performs the software content execution and displays the real-time data to both screens.

The graphic signal can be connected to an LED display board or marquee. A growing trend in the Visual Factory is a full-graphic capable LCD, such as Advantech's DSD-3042, a 42" Full HD 500 nits Digital Signage Display rated at 50,000hrs of prolonged life. This enables the full-color display of production charts and other graphics-rich content.



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