



# FactoryTalk Analytics VisionAI

## Edge Compute Setup Guide

Version 1.00.00

FTALK-IN003A-EN-P



Original Instructions

# Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

Reproduction of the contents of this manual, in whole or in part, without written permission of Rockwell Automation, Inc., is prohibited.

Throughout this manual, when necessary, we use notes to make you aware of safety considerations.



**WARNING:** Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

---



**ATTENTION:** Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

---

**IMPORTANT** Identifies information that is critical for successful application and understanding of the product.

---

These labels may also be on or inside the equipment to provide specific precautions.



**SHOCK HAZARD:** Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

---



**BURN HAZARD:** Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

---



**ARC FLASH HAZARD:** Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

---

The following icon may appear in the text of this document.



Identifies information that is useful and can help to make a process easier to do or easier to understand.

<b>FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC Setup</b>	<b>Chapter 1</b>	
	Getting Started .....	5
	Prerequisites .....	5
	Setup FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC .....	5
	Camera Connection .....	6
	ASEM 6300B-JB1 Compact Box PC Setup Confirmation .....	7
	PLC Connection .....	7
Troubleshooting .....	7	
<b>FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC Static IP Configuration v1.0</b>	<b>Chapter 2</b>	
	Getting Started .....	9
	Prerequisites .....	9
	Configuring a Static IP for the PLC or Internet .....	9

This page is intentionally left blank

# FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC Setup

## Getting Started

This document is designed to help you to setup the FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC.

### Prerequisites

- A valid tenant organization must exist in FactoryTalk Hub.
- Your organization must have a valid subscription of FactoryTalk Analytics VisionAI.
- You are signed into your organization's FactoryTalk Analytics VisionAI web application.
- You have an ASEM 6300B-JB1 Compact Box PC provisioned for FactoryTalk Analytics VisionAI.
- Your FactoryTalk Hub organization name and camera serial number(s) have been communicated to Rockwell Automation.
- You have received email confirmation from Rockwell Automation that allocation of the ASEM 6300B-JB1 Compact Box PC to your organization is complete and assignment of your camera(s) to your ASEM 6300B-JB1 Compact Box PC(s) is complete. If you are setting up multiple ASEM 6300B-JB1 Compact Box PCs with multiple cameras, you will receive instruction from Rockwell Automation about which cameras have been assigned to each ASEM 6300B-JB1 Compact Box PC based on the serial numbers of the cameras and the ASEM 6300B-JB1 Compact Box PCs.

### Setup FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC

1. Unpack the ASEM 6300B-JB1 Compact Box PC.

**Figure 1 - ASEM 6300B-JB1 Compact Box PC**



The LAN ports will be used as follows:

**Table1: Connections**

Port	Connection
LAN 1	Camera 1
LAN 2	Camera 1
LAN 3	Internet
LAN 4	PLC

2. Plug an RJ45 ethernet cable into the LAN port marked 3. Plug this cable into a router or switch that will supply internet connectivity.

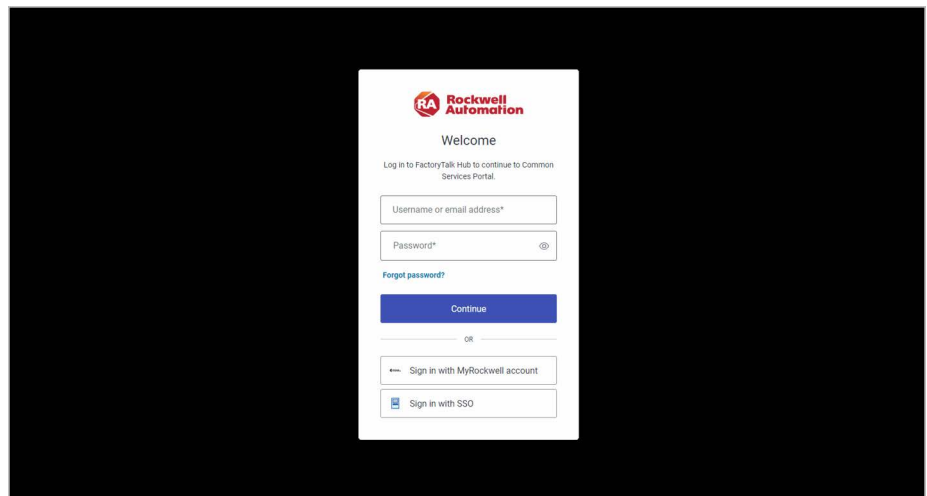
By default, the device is configured for Dynamic Host Configuration Protocol (DHCP). If your router supports this protocol, you should be able to establish connectivity automatically.

3. Plug a USB mouse and keyboard into any 2 of the USB ports.
4. Plug a monitor with at least 720p resolution into the Display Port marked DP1.
5. Wire 24V and Ground (GND) wires into the 24V power connector. Plug the power connector into the power connector port, just under the power button on the ASEM 6300B-JB1 Compact Box PC.

Once power is connected, the device will automatically start to boot up. You will see it cycle through several screens, until it lands on the FactoryTalk Analytics VisionAI loading page.

The page will stay here, repeatedly attempting to establish connection. If your DHCP settings are working correctly, within about a minute, the page will redirect you to the FactoryTalk Hub login page.

**Figure 2 - FactoryTalk Hub Login page**



6. Sign in with your MyRockwell credentials.  
You should be prompted to select an organization. Once you select an organization, you should see the FactoryTalk Analytics VisionAI home page. For more information on logging into the FactoryTalk Analytics VisionAI web application, refer to the **FactoryTalk Analytics VisionAI User Guide**.

### Camera Connection

1. Plug your cameras into the computer.



Cameras should be plugged into the LAN ports 1 and 2.

To use your cameras, they need to be powered. You have 2 options for powering the cameras:

- Option 1: Use the main ethernet cable with PoE (power-over-ethernet) through the ethernet port. This requires a PoE Injector in-between the camera and the computer.
- Option 2: Run the secondary hi-rose connector on back of the camera to an appropriate cable, running to a power supply.

## ASEM 6300B-JB1 Compact Box PC Setup Confirmation

At this point, you should see the device show up on the FactoryTalk Analytics VisionAI home page. Select the device and click **View Station** to see a live camera feed.

You are now fully connected and ready to begin running inspections.

## PLC Connection

1. Run an ethernet cable from your Allen Bradley PLC and plug it into Lan Port 4 on the JB1.

By default, our device will be configured for DHCP, but you will likely want to configure a static IP address. Refer to the [FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC Static IP Configuration v1.0](#) section for further instruction on configuring a static IP address.

A FactoryTalk Analytics VisionAI Add-On Profile (AOP) and Add-On Instructions (AOIs) can be found on the Rockwell Automation [Product Compatibility and Download Center \(PCDC\)](#). Download these files from PCDC and load them into your Logix application. Refer to the **FactoryTalk Analytics VisionAI AOP/AOI Reference Guide** for more information.

## Troubleshooting

This section describes troubleshooting methods for issues encountered.

### SCENARIO 1: FactoryTalk Analytics VisionAI loading page spinning indefinitely.

**Description:** The FactoryTalk Analytics VisionAI loading page continues spinning and attempting to load indefinitely.

**Cause:** There is a network connectivity issue.

**Solution:** You may need to coordinate with your IT department to make sure you have internet access available from this ethernet drop. If they require you to configure a specific static IP address, refer to the [FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC Static IP Configuration v1.0](#) section for directions.

This page is intentionally left blank



# FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC Static IP Configuration v1.0

## Getting Started

This document is designed to help you to configure a static IP address for the FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC.

### Prerequisites

The FactoryTalk Analytics VisionAI ASEM 6300B-JB1 Compact Box PC has fully launched and the interface has loaded.

### Configuring a Static IP for the PLC or Internet

1. Click **F1**.  
This will bring up the help screen in the browser.
2. Move your mouse to the top right corner. Click on the User icon. Click **Close 2 windows**.  
You should now be dropped out of the browser entirely
3. Select **CTRL+ALT+F2**.  
You should now be dropped into a black terminal screen and prompted for a user login.
4. Login with the following credentials:  
Username: network-admin
5. You will now be prompted to create a password.  
Your password must be:
  - at least 14 characters long
  - contain at least 1 lowercase character
  - contain at least 1 uppercase character
  - contain at least 1 number
  - contain at least 1 non-alphanumeric character (symbols, punctuation, etc)After you enter your password, you will be asked to confirm your password.  
You should make a note of this password and not lose it, as you will need to enter it anytime you want to make changes to network settings in the future. If you get accidentally locked out of your system, you will need to contact support to reset it.
6. The Network Configurator script will now guide you through the rest of setup. It will ask you whether you want to configure your PLC port, or your main internet port.

In this example, we are configuring our PLC port to have a static ip address, reachable at 10.000.0.1, with netmask 255.255.255.0, and destination subnet of 10.100.0.0.

```
*****
Network Configurator v4.31-50-g7c205c0cb
*****
Select which interface you would like to configure:
[ 0 ]: PLC
[ 1 ]: Internet
0
Do you want to use DHCP? [y/N]: N
Enter the static IP for this interface: 10.100.0.1
Enter the netmask: 255.255.255.0
Enter the gateway IP: 0.0.0.0
Enter the destination subnet for your gateway: 10.100.0.0
Generated config:
network:
  version: 2
  renderer: networkd
  ethernet:
    eno4:
      addresses:
        - 10.100.0.1/24
      routes:
        - to: 10.100.0.0/24
          via: 0.0.0.0
          metric: 50
      nameservers:
        addresses: [1.1.1.1, 1.0.0.1]
Confirm config? [y/N]: y
System must reboot for changes to take effect. Reboot? [y/N]: y
Rebooting in 5s
```

The system will now restart. On restart, it will boot back into the login screen. If you need to make further changes, restart this guide from [step 1](#).

# Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Technical Documentation Center</b>	Quickly access and download technical specifications, installation instructions, and user manuals.	<a href="http://rok.auto/techdocs">rok.auto/techdocs</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

## Documentation Feedback





Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at [rok.auto/docfeedback](http://rok.auto/docfeedback).

Allen-Bradley, ArmorStart, expanding human possibility, FactoryTalk, Logix 5000, PlantPAx, PowerFlex, PowerMonitor, Rockwell Automation, Stratix, Studio 5000, Studio 5000 Logix Designer, Studio 5000 View Designer, and TechConnect are trademarks of Rockwell Automation, Inc.

CIP and EtherNet/IP are trademarks of ODVA, Inc.

Trademarks not belonging to Rockwell Automation are property of their respective companies.

Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

Connect with us.    

[rockwellautomation.com](http://rockwellautomation.com) — expanding **human possibility**<sup>®</sup>

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation SEA Pte Ltd, 2 Corporation Road, #04-05, Main Lobby, Corporation Place, Singapore 618494, Tel: (65) 6510 6608, FAX: (65) 6510 6699

UNITED KINGDOM: Rockwell Automation Ltd., Pitfield, Kiln Farm, Milton Keynes, MK11 3DR, United Kingdom, Tel: (44)(1908) 838-800, Fax: (44)(1908) 261-917

FactoryTalk Analytics VisionAI Edge Compute Setup Guide - September 2024

Copyright © 2024 Rockwell Automation, Inc. All rights reserved. Printed in the U.S.A.