Aveco External Database Server

Technical Reference Sheet

TRS-1037-01

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INTRODUCTION

OVERVIEW

The primary function of Aveco's External Database Servers is to store and manage a vast collection of media assets records required for the ASTRA automation workflows. These assets encompass various metadata, configuration details, and other relevant information. The database is structured to facilitate efficient storage, retrieval, and manipulation of assets. Aveco employs External Database Servers as integral components of the ASTRA automation systems.

INDUSTRIAL COMPUTERS WITH LINUX OS

Aveco's External Database Servers are industrial-grade computers. Equipped with a Linux operating system, these servers offer a stable and robust platform for running the database software and handling automation-related tasks.

DATA CONSISTENCY AND REDUNDANCY

To ensure data integrity and resilience, Aveco's External Database Servers employ mechanisms for data consistency and redundancy. They utilize robust data storage technologies, such as RAID array, to prevent data loss and ensure the high availability of database records. Regular backups and replication techniques may also be employed to mitigate the risk of data loss in case of hardware failures.

In conclusion, Aveco's External Database Servers with Linux operating systems serve as a vital component within the ASTRA automation systems. These servers house a comprehensive database of assets and are seamlessly integrated with the automation system, NUE client, and other components in the system topology. By leveraging the stability, flexibility, and security of Linux, they ensure efficient asset management, data integrity, and reliable performance for automation workflows.

PACKAGE CONTENTS

Qty	Content
1	Database Server
1	Rack mount rails
2	Power cable, 1m

INSTALLATION

The External Database Server comes pre-installed. It is only necessary to connect it to the Ethernet network. Please consult with the assigned Aveco technician on how to proceed with this step.

TECHNICAL SPECIFICATIONS

Figure 1. Database Server - Front Panel Schematic

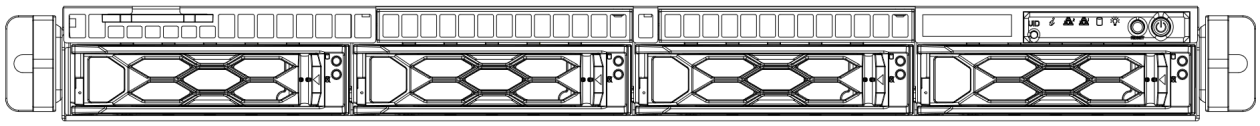
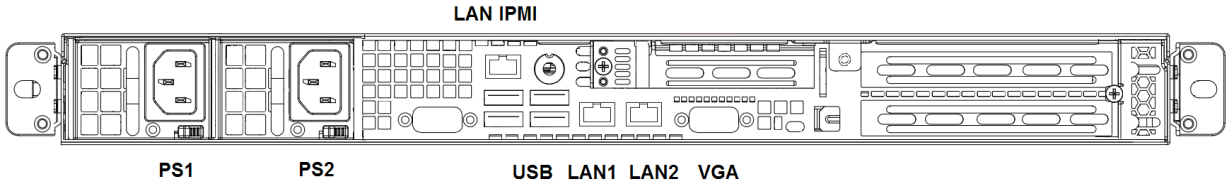


Figure 2. Database Server - Back Panel Schematic



Connectivity	
Ethernet	3x RJ45 (2x 10Gb LAN, 1x IPMI)

Physical	
Dimensions	1U, depth 650mm
Weight	~14kg

Power	
Power Supply	Redundant, hot swap, two power cords
Voltage	Input voltage 110-240V, 50-60Hz
Power Consumption	300 W

OPERATION

The External Database Server is designed to operate independently, requiring no additional procedures for either initiating or terminating its services. Importantly, the database server must be up and running prior to the Astra automation server. This specific order is necessary to ensure proper data communication and to avoid any potential data processing conflicts.

The NUE clients have direct access to the database server. This direct interaction allows for efficient data exchange, bypassing any intermediary processes or systems.

In the event of any technical issues, these are signaled to users within the ASTRA NUE system status application. The status application is designed to provide timely alerts and status updates, ensuring that users are aware of any system problems as soon as they occur. For further information please refer to the NUE user manual.

In addition to the NUE client application, an external monitoring system also can be utilized to track and report malfunctions via SNMP.