

Server Rack Commissioning

English



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Table of Contents

1 Introduction	4
Validity	4
About this Document	4
Typographical Conventions	5
2 Safety Instructions	6
3 General Notes	9
Scope of Delivery	9
Transportation and Packaging	9
Warranty	9
Approvals/Certifications	9
Appropriate Use	10
Main Features	11
Suitability	11
4 Requirements	12
General	12
Voltage Supply	12
Maintenance	13
Cleaning	13
5 Connections	14
6 Login	16
7 Technical Specifications	17

1 Introduction

Validity

This document applies to the following unit:

- Server Rack-Mount 1 RU

Pictures in this document may differ from the actual unit.

About this Document

This document contains the most important steps for the connection, commissioning and configuration of the unit. Safety instructions, general notes and basic technical specifications are additionally provided.

The target audience is trained and authorized professionals (installers).

Detailed descriptions of the configuration of the unit can be found in separate documentations.

Typographical Conventions

This document may contain various warning words and symbols that indicate potential sources of danger:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates practices for preventing property damage, incorrect configurations or faulty operations.

For reasons of clarity and readability, various text formatting elements and types of emphasis are used in this documentation:

Instructions are indicated by arrows:

→ Carry out instructions one after the other in the sequence described.

Expressions in ***bold/italics*** generally indicate a control element on the unit (switches or labels) or on its user interface (buttons, menu items).

Paragraphs in italics provide information on basic principles, special features and efficient procedure as well as general recommendations.

2 Safety Instructions

Only use the unit if it is technically in proper working condition and for the intended purpose while keeping safety and potential dangers in mind.

Qualified Personnel

The installation, mounting, connection, commissioning and configuration of the unit may only be carried out by qualified personnel.

This also applies to the maintenance, testing and repair, whereat the regulations of the DIN VDE 0701 series of standards (repair, modification and inspection of electrical appliances) must be followed.

Regulations

The use of video and audio surveillance systems is, in general, strictly regulated. Inform yourself about the currently valid laws and regulations regarding data, worker and environmental protection before using the unit and ensure compliance with them.

System Components

Only use internal components that have been tested and approved by Dallmeier. Inappropriate internal components may cause malfunctions, damages and data loss and may result in the loss of warranty.

Modifications

Do not make any modifications to the hardware or software that have not been tested and approved by Dallmeier.

Inappropriate modifications may cause malfunctions, damages and data loss and may result in the loss of warranty.

Documentation

Read the documents included in the delivery carefully and thoroughly. Always observe the contained instructions, notes and warnings.

Condensation Water

If the unit is brought from a cold to a warm environment, resulting condensation water may cause malfunctions and damages.

In this case, wait (up to 8 hours) until the unit has reached room temperature before commissioning.

Earthing & Equipotential Bonding

For the safety of persons (protection against dangerous contact voltages) and devices (protection against overvoltages) and the immunity of information and communication technology equipment to electromagnetic interferences (EMI), all protective measures, which are specified by the currently valid DIN, VDE and ISO standards and which provide for a standard-compliant earthing and a correct equipotential bonding of electrical and electronic devices, are mandatory and must be fulfilled by all means.

Lightning Storms

To avoid damage to the unit by electrical surge during lightning storms, unplug the unit from the mains power supply (pull out the power plug).

This is also recommended, when the unit has been unused for a long period of time.

Operating Conditions

Unfavourable operating conditions may shorten the life of the unit and may cause malfunctions, damages and data loss and may result in the loss of warranty.

Observe the specifications given in the technical data, the operating condition requirements and the maintenance instructions.

Shocks

Shocks may cause malfunctions and damages.

The unit may not be moved while in operation.

Foreign Bodies

If objects or liquids get into the unit, immediately disconnect it from the power supply (pull out the power plug).

Contact the sales partner responsible for your area.

Burnt Smell

If you notice burnt smell or a formation of smoke coming from the unit, immediately disconnect it from the power supply (pull out the power plug).

Contact the sales partner responsible for your area.

Opening

The housing of the unit may only be opened by qualified personnel for commissioning, inspection, maintenance and repair.

Elevated ambient temperature

The ambient temperature in a multi-unit rack may be higher than the room ambient. Ensure that the maximum ambient temperature in the rack complies with the requirements specified in the technical data.

Reduced air flow

The air flow in a (closed) rack may be reduced. Ensure that the amount of air flow required for a safe operation is not compromised. Ensure sufficient ventilation with 4" (10 cm) of free space on the front, rear and right side of the device.

Disposal

Do not dispose waste electrical and electronic equipment into the household trash.

Disconnect the unit from the power supply.

Remove all connected devices.

Return the unit to your respective sales partner.

3 General Notes

Scope of Delivery

The standard scope of delivery includes all brackets, screws and plastic screw anchors that are necessary for a proper installation.

However, it has to be considered that the scope of delivery may differ depending on the ordered equipment, the device variant or the country of destination.

Transportation and Packaging

Store the original packaging for transportation at a later date.

Dallmeier is not responsible for any damage resulting from unprofessional/improper transportation.

The goods should only be shipped in their original packaging. If the original packaging is no longer available, ensure that the packaging used sufficiently protects the unit against damage, moisture, heat and cold.

Warranty

The terms and conditions valid at the time the contract was signed shall apply.

Approvals/Certifications

The following approvals/certifications were valid at the time of this document's compilation:

- CE
- FCC
- UL

Visit www.dallmeier.com for possible updates.

Appropriate Use

The **Server Rack-Mount 1 RU** is equipped with a powerful Intel[®]) Quad-Core CPU and 8 GB DDR3 RAM.

Together with the included license for the Windows[®]) 7 operating system, it is the ideal platform for the All-in-One installation of the **SeMSy[®] III Basic/Advanced** Package and the different server components in a **SeMSy[®] III video management system**.

The **Server Rack-Mount 1 RU** has a compact 1 RU housing and can be installed in a 19" rack using the integrated mounting rails.

Main Features

- Microsoft Windows 7*) operating system
- CPU Intel Xeon*), Quad-Core, 3.10 GHz
- 8 GB DDR3 RAM
- Hard drive bays for up to 4× hard disks (SATA)
- Hard disks with 2000 or 4000 GB, optional
- Two high-performance (80PLUS Gold) and redundant power supply units
- Compact 1 RU rack-mount housing (short depth)
- Mounting rails for the installation in a 19" rack integrated

Suitability

In combination with the appropriate software, the device is suitable for the integration into systems with the following hardware and software technology.

- SeMSy® III Basic Package
- SeMSy® III Advanced Package
- SeMSy® III Server Software
- SEDOR® ANPR Server Software
- Other applications (DMVC Server, Time Server)

4 Requirements

General

Unfavourable local conditions may shorten the life of the unit and may cause malfunctions or damages.

→ Do not install/operate the unit in places

- with a large amount of dust and dirt,
- with steam or oil vapours (e.g. kitchen),
- with direct sunlight,
- with strong heat emissions (e.g. radiator),
- with improper ambient temperatures,
- near sources with strong radiation (e.g. radio transmitters, magnetic fields),
- with corrosive surroundings (e.g. gases, salt water),
- with insufficient air ventilation (e.g. closed cabinet).

Voltage Supply

The unit is operated with 110/240 V AC, 50/60 Hz.

NOTICE

Prevention of separation from the circuit

The plug of the supply line is used as disconnection device from the supply circuit.

- Use a socket-outlet that is installed near the unit.
- Ensure that the socket-outlet is easily accessible.

Maintenance

The housing of the unit may only be opened by qualified personnel for commissioning, inspection, maintenance and repair.

WARNING

Danger of electric stroke

The device is equipped with two redundant power supply units.

→ Ensure that both supply lines are disconnected from the supply circuit

CAUTION

Danger of explosion if battery is incorrectly replaced

→ Replace and discard the battery of the mainboard in accordance with the instructions of the manufacturer.

Cleaning

If it is necessary to clean the unit, observe the following notes:

NOTICE

Damage to the surface of the unit

→ Clean the housing with a soft, dry and antistatic cloth.

→ Do not use detergents.

5 Connections

Rear Side

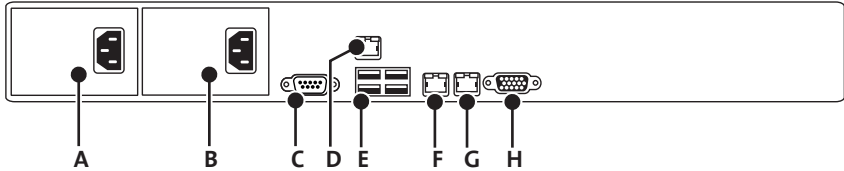


Fig. 1

A Power Supply Module 1

IEC C14 socket, 110/240V AC, 50/60 Hz

B Power Supply Module 2

IEC C14 socket, 110/240V AC, 50/60 Hz

C COM 1

D-SUB, 9 pins

D IPMI Interface

RJ45, 10/100Mbps (dedicated Intelligent Platform Management Interface V2.0)

E USB Interface

4× USB 2.0, type A

F Ethernet Interface 1

RJ45, 10/100/1000Mbps

G Ethernet Interface 2

RJ45, 10/100/1000Mbps

H Monitor OUT

Mini-D-SUB, 15-pole

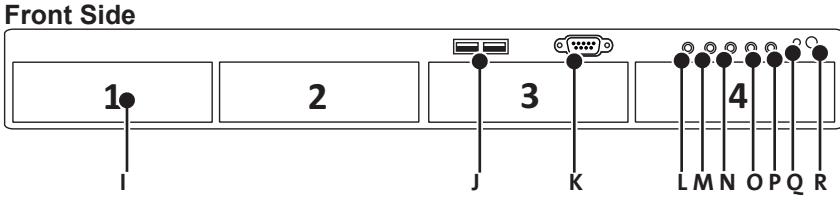


Fig.2

- I HDD Changeable Frame 1–4**
- J USB Interface**
2× USB 2.0, type A
- K COM 2**
D-SUB, 9 pins
- L LED System Overheat**
- M LED Network Activity LAN 2**
- N LED Network Activity LAN 1**
- O LED Hard Disk Activity**
- P LED Voltage Status**
- Q Reset**
- R Mains Switch**

6 Login

The graphical user interface is displayed after the successful identification as authorized user.

The factory default admin password is “**pvsdallmeier**”.

NOTICE

Risk of misuse by unauthorized users!

→ Change the factory default admin password as soon as possible.

NOTICE

Danger to system integrity!

→ Ensure an adequate protection against malicious software (malware).

→ Ensure a regular data archiving (backup).

Detailed descriptions of the configuration of the unit can be found in separate software documentations available on www.dallmeier.com.

7 Technical Specifications

The following basic technical specifications were valid at the time of this document's compilation.

Detailed specifications and possible updates can be found in the current product data sheet on www.dallmeier.com.

Electrical Data

Power supply units	2× high-performance modules, (80PLUS Gold)
Redundancy	Yes
Voltage supply	110/240 V AC, 50/60 Hz
Power consumption	Max. 400 W
Heat power	Max. 1366 BTU/h

Mechanical Data

Dimensions (W × H × D)	Approx. 437 × 43 × 503 mm (17.2" × 1.7" × 19.8")
Height units	1 RU
Weight	Approx. 9 kg (20 lb)

Ambient Data

Temperature	+5°C up to +340°C (41°F – 104°F)
Recommended temperature	+20°C up to +25°C (68°F – 77°F)
Humidity	5 – 70% RH, non-condensing
Atmospheric load	Dust-free

Approvals/Certifications

Type	CE, FCC, UL
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Notes

Notes

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