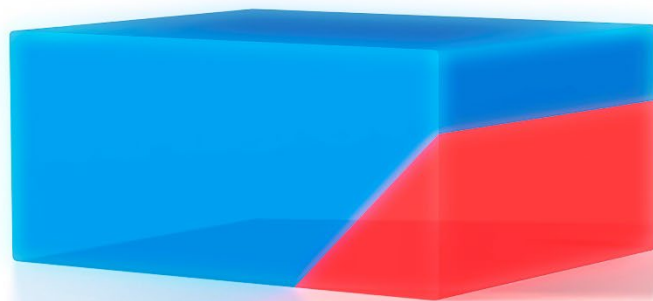


VBX1

System Requirements



System Requirements

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The product information, specifications, and technical data embodied in this manual represent the technical status at the time of writing and are subject to change without prior notice.

We have done our best to ensure that the information given in this manual is useful, accurate, up-to-date, and reliable. However, OMICRON does not assume responsibility for any inaccuracies which may be present.

The user is responsible for every application that makes use of an OMICRON product.

OMICRON translates this manual from the source language English into a number of other languages. Any translation of this manual is done for local requirements, and in the event of a dispute between the English and a non-English version, the English version of this manual shall govern.

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1 Introduction

The *VBX1* acts as virtual platform for *IEDScout*, *StationScout* or *StationGuard*.



Data loss and damage

To protect your digital substation while using the *VBX1* platform, make sure to meet your obligations concerning the security of your host system and hypervisor.

- ▶ Use a secure system and network configuration, and a firewall
- ▶ Isolate and segment your virtual environments
- ▶ Apply security patches to BIOS, host system, and hypervisor whenever available
- ▶ Enforce access control and protect the hypervisor from unauthorized access
- ▶ Implement side-channel mitigation as required



Data loss and damage

As a virtual platform, the *VBX1* cannot physically be reset. For security reasons, a software reset is not possible, and passwords cannot be retrieved.

- ▶ Make sure to remember your password.
- ▶ If you lose or forget your password, contact OMICRON Support (→ [Support](#) (page 17)).

The *VBX1* is delivered as a virtual appliance in the OVA (Open Virtual Appliance) file format, serving as a template for easy installation on VMware hypervisors or Oracle VirtualBox.

- ▶ For further information on the VMware hypervisors or Oracle VirtualBox, refer to the corresponding documentation.

2 System requirements

Supported host systems (CPUs)

- Intel Xeon
- Intel Core
- AMD x64

Hypervisors

Supported

- VMware vSphere 7.0 or higher (recommended)
- VMware ESXi 7.0 or higher

Compatible (not tested)

- VMware Workstation 16.2 or higher
- Oracle VirtualBox 7.0 or higher

Minimum virtual machine settings

- 2 cores
- 8 GB RAM
- Hard disk size and speed:
 - 10 GB solid-state drive (SSD) for *StationScout*
 - 60 GB solid-state drive (SSD) for *StationGuard*
 - 10 000 IOPS (random 4 K)
 - 100 MB/s (sequential)
- 1 Ethernet port for the control (**CTRL**) interface
- 1 Ethernet port for the substation interface (up to 8 ports are supported)

Recommended virtual machine settings

- 4 cores
- 16 GB RAM
- Hard disk size and speed:
 - 100 GB solid-state drive (SSD) for *StationScout*
 - 500 GB solid-state drive (SSD) for *StationGuard*
 - 20 000 IOPS (random 4 K)
 - 400 MB/s (sequential)
- 1 Ethernet port for the control (**CTRL**) interface
- 1 Ethernet port for the substation interface (up to 8 ports are supported)

Support

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