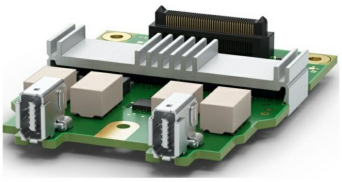
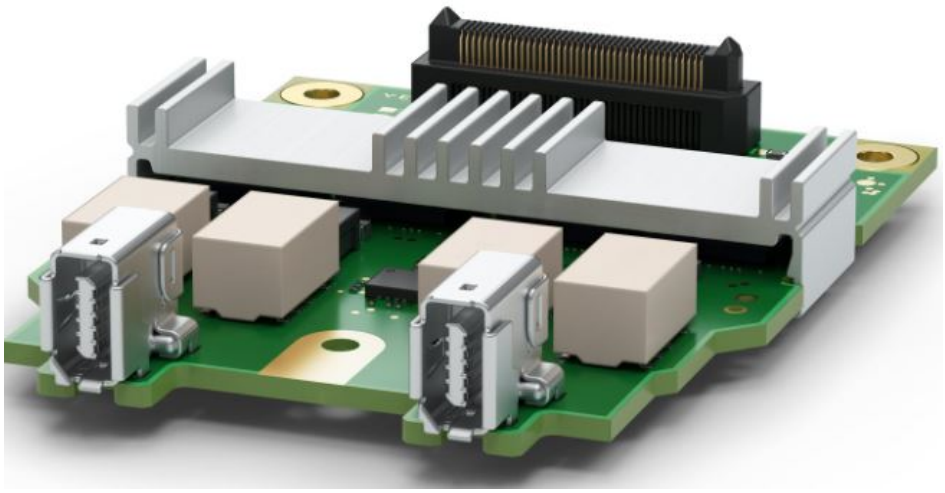


VECTOR VNmodule60 Replacement Module Instructions

Contents

VECTOR VNmodule60 Replacement Module



Imprint

Introduction

VNmodule60

Important Notes – Details

Wichtige Hinweise

VNmodule60 Instructions

Version 3.4

Introduction
In this chapter you find the following information:

About this User Manual

Conventions:

- **Style bold:** Blocks, surface elements, window- and dialog names of the software. Accentuation of warnings and advices.
- **[OK]:** Push buttons in brackets

- **File|Save:** Notation for menus and menu entries
- **File name and source code:** Hyperlinks and references.
- **Notation for shortcuts:** Symbol

Utilization:

- This symbol calls your attention to warnings.
- Warning of damages by electrostatic discharge (ESD =Electrostatically Sensitive Device).
- Here you can obtain supplemental information.
- Here you can find additional information.
- Here is an example that has been prepared for you.
- Step-by-step instructions provide assistance at these points.
- Instructions on editing files are found at these points.
- This symbol warns you not to edit the specified file.

Warranty

Restriction of warranty: We reserve the right to change the contents of the documentation and the software without notice. Vector Informatik GmbH assumes no liability for correct contents or damages which are resulted from the usage of the documentation. We are grateful for references to mistakes or for suggestions for improvement to be able to offer you even more efficient products in the future.

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Important Notes
Caution! We provide our important notes and safety instructions in several languages, including English (EN) and German (DE). For more details, see the relevant section:

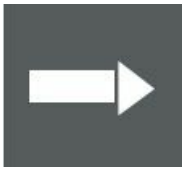
EN: Important Notes – Details

Introduction

About this User Manual

Conventions
In the two following charts you will find the conventions used in the user manual regarding utilized spellings and symbols.

Style	Utilization
bold	Blocks, surface elements, window- and dialog names of the software. Accentuation of w arnings and advices. • **[OK]** Push buttons in brackets • **File|Save** Notation for menus and menu entries
Source Code	File name and source code.
Hyperlink	Hyperlinks and references.
<CTRL>+<S>	Notation for shortcuts.

Symbol	Utilization
	This symbol calls your attention to warnings.
	Warning of damages by electrostatic discharge (ESD = Electrostatically Sensitive Device).
	Here you can obtain supplemental information.
	Here you can find additional information.
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Important Notes – Details

2 VNmodule60

Replacement

- **Caution!**
  - Ensure an ESD safe working environment during disassembly and assembly.
  - Avoid touching the top, bottom or connectors of the boards during this process to avoid ESD damage.
- **Caution!**
  - To avoid scratching the surface, make sure the work surface is clean and soft.
- **Caution!**
  - Take care when removing / reassembling the module to avoid damaging the connector.

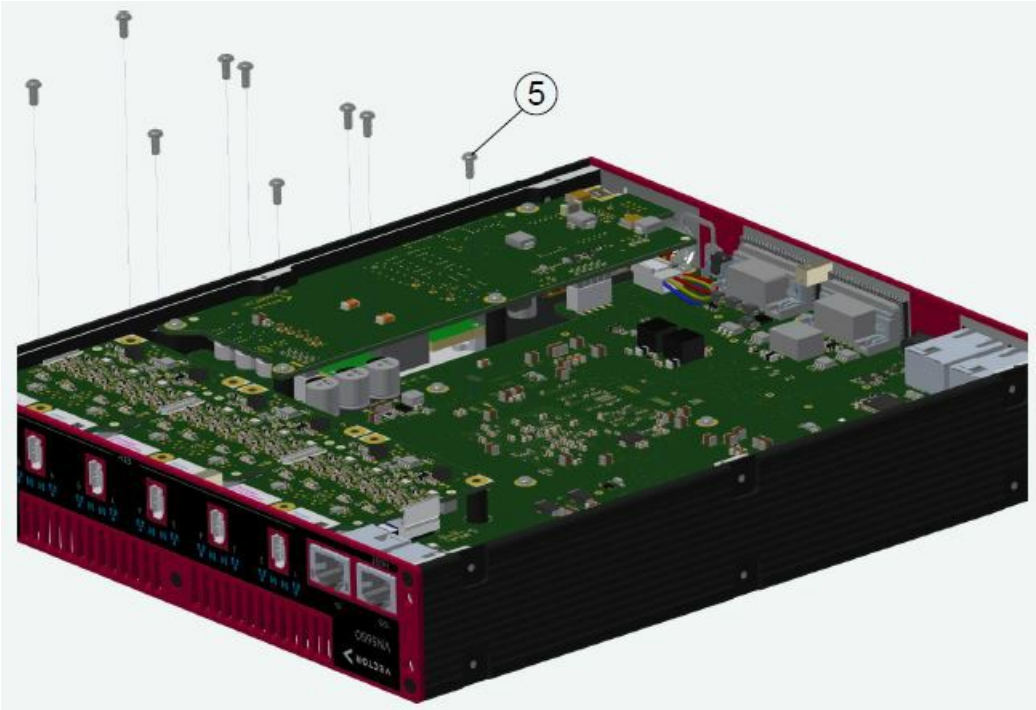
Removing a VNmodule60

Step by Step Procedure

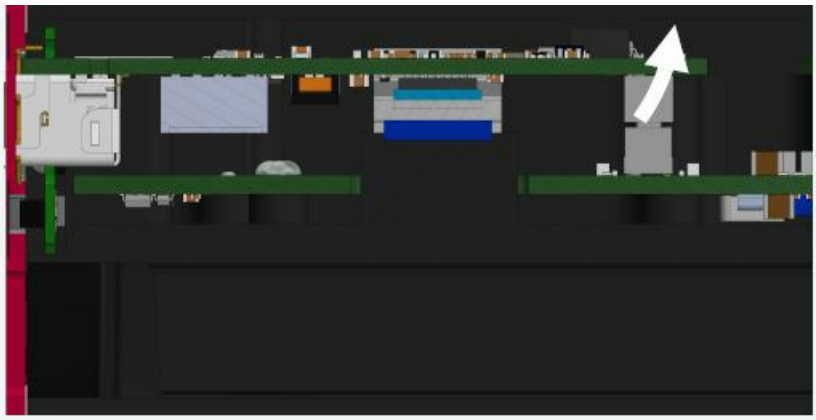
1. First unscrew all four screws (1) of the VSH Equipment Feet (2) using a Torx TX 10 screwdriver and set the screws and VSH Equipment Feet aside. The screws can be reused up to five times.

2. Turn the device upside down.
3. Unscrew all eight screws (3) of the device bottom cover (4) using a Torx TX 8 screwdriver. Put the screws and the bottom cover aside. These screws can also be reused up to five times.

4. Unscrew all screws (5) on each module to be replaced using a Torx TX 8 screwdriver. Set the screws aside. These screws can be reused up to five times.

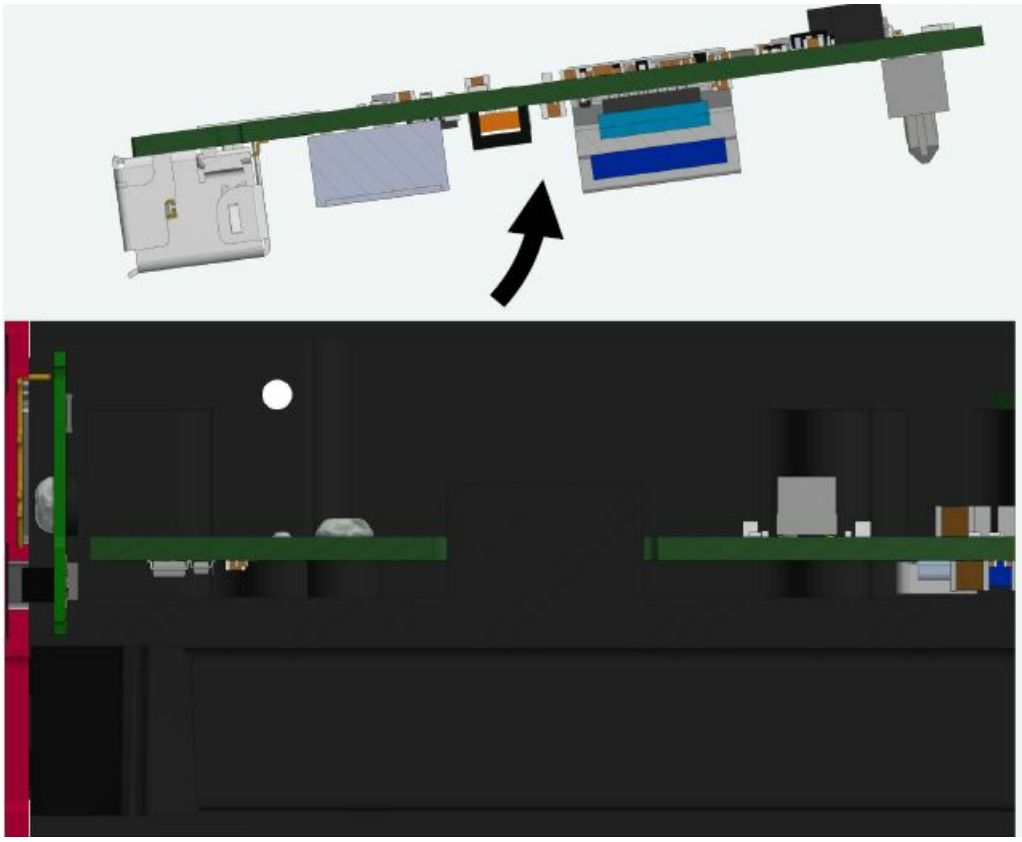


5. Lift up on the back of the module until it is disconnected from the connector on the main board.



6. Pull the module inwards until the front connector of the module is completely pulled through the LED board.

7. The module can then be removed from the housing.

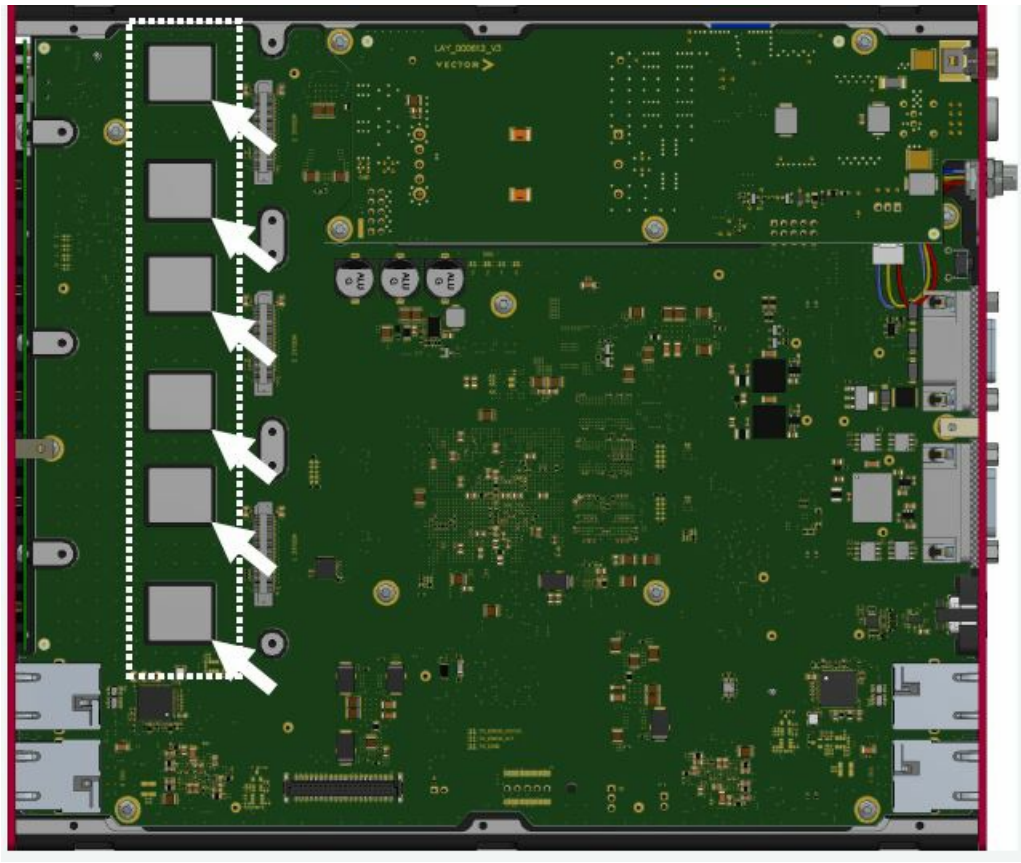


8. Place the module in ESD safe packaging.

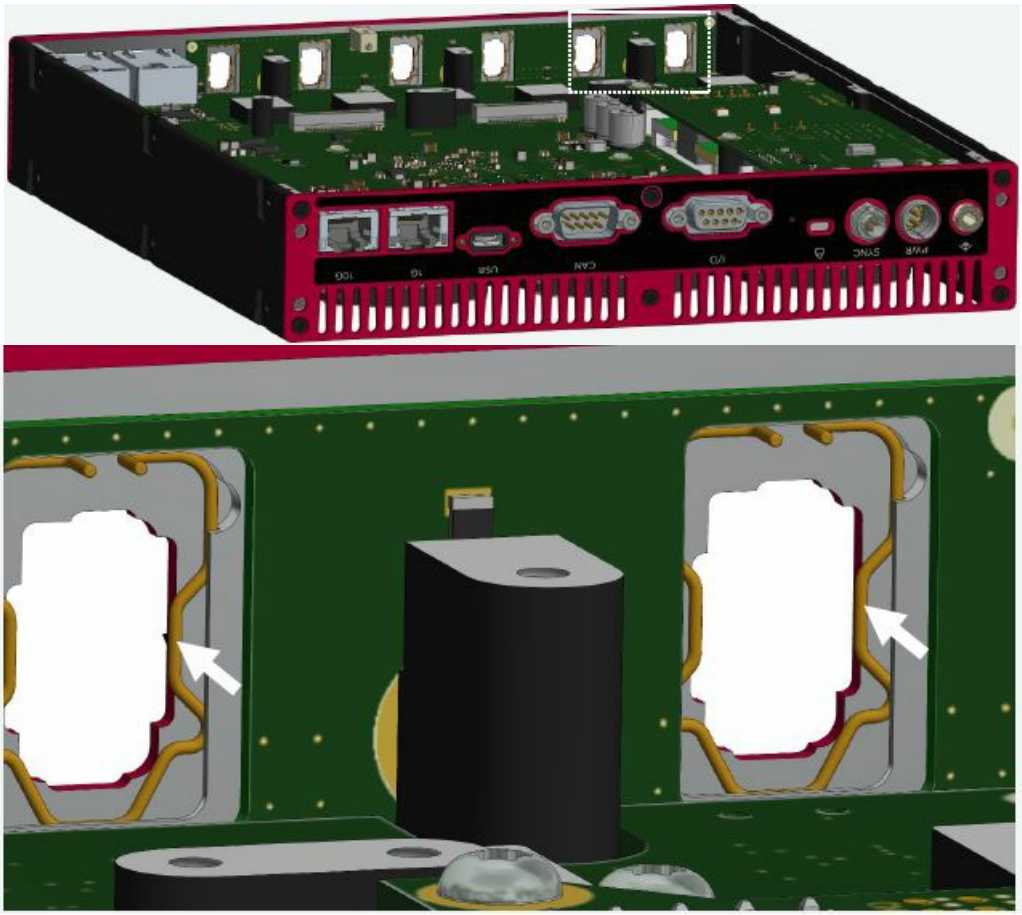
Inserting a VNmodule60

Step by Step Procedure

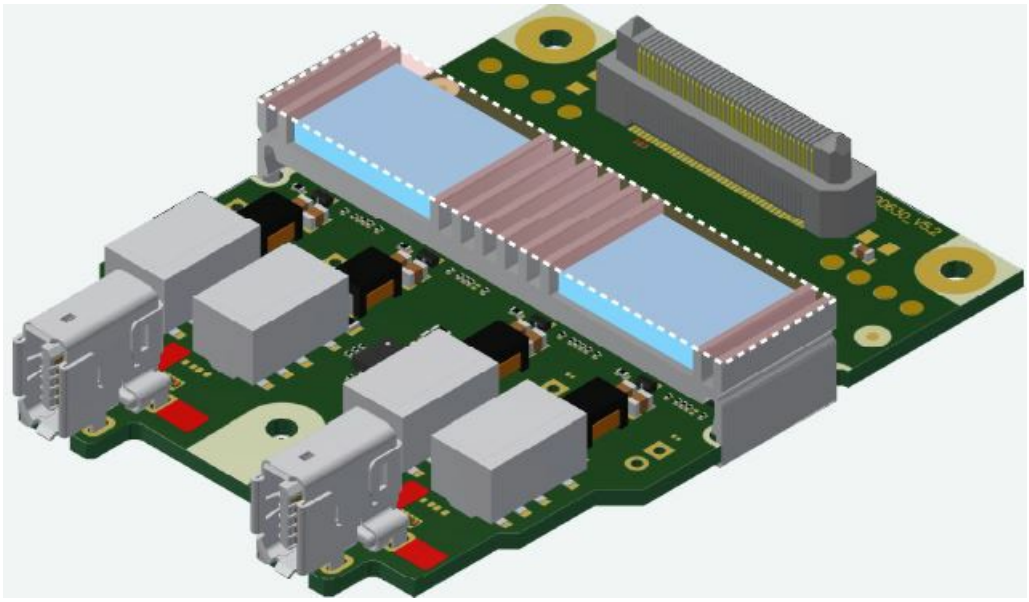
1. Before inserting the new modules, clean the six cooling domes on the main- board of any remains of the old gap pads.



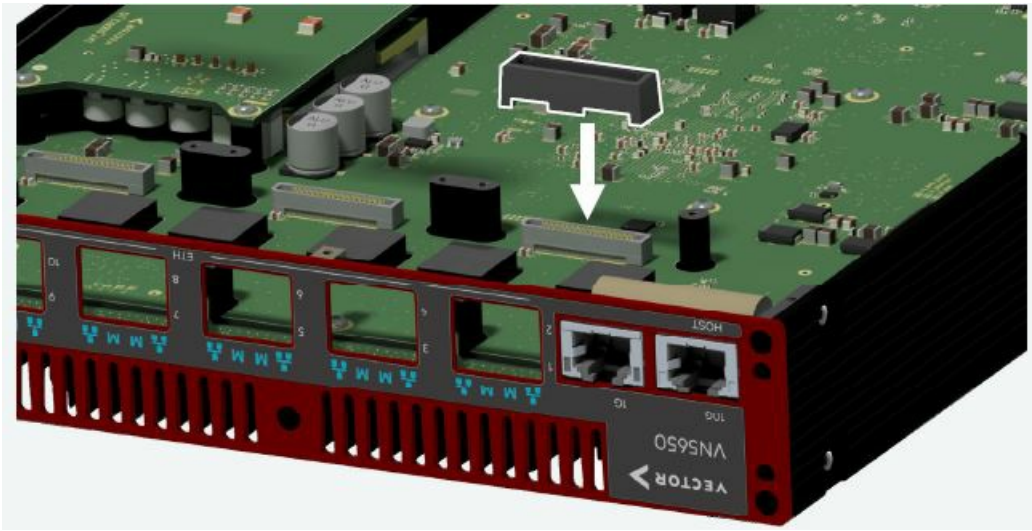
2. Check that the EMC spring is in the correct position.



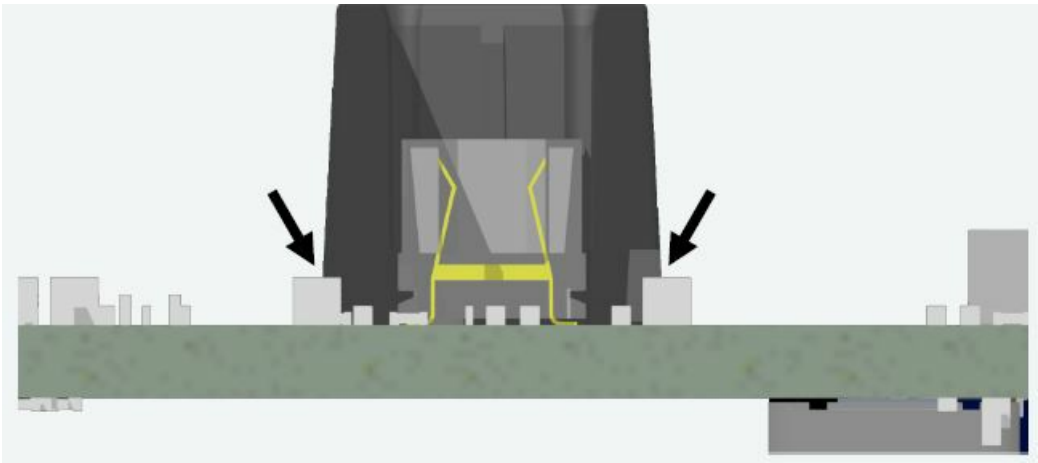
3. Unpack the replacement module. Remove the protective film from the gap pads. Do not remove the gap pads from the heat sink!



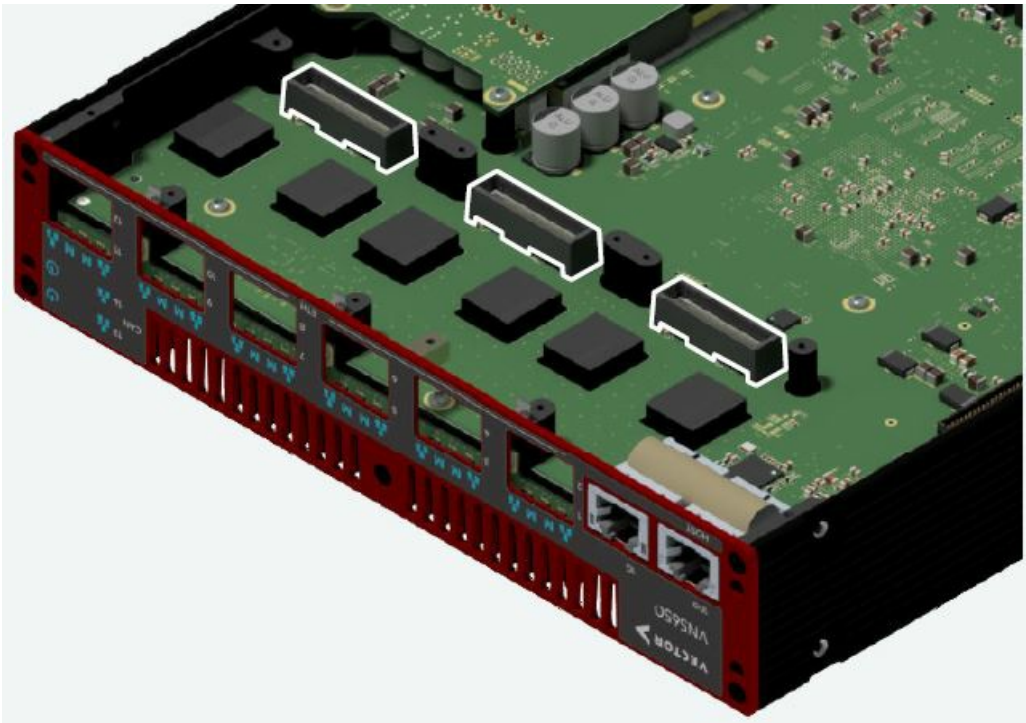
4. To avoid damage to the VNmodule jack, please insert the plug-in aid over the socket before inserting the VNmodule.



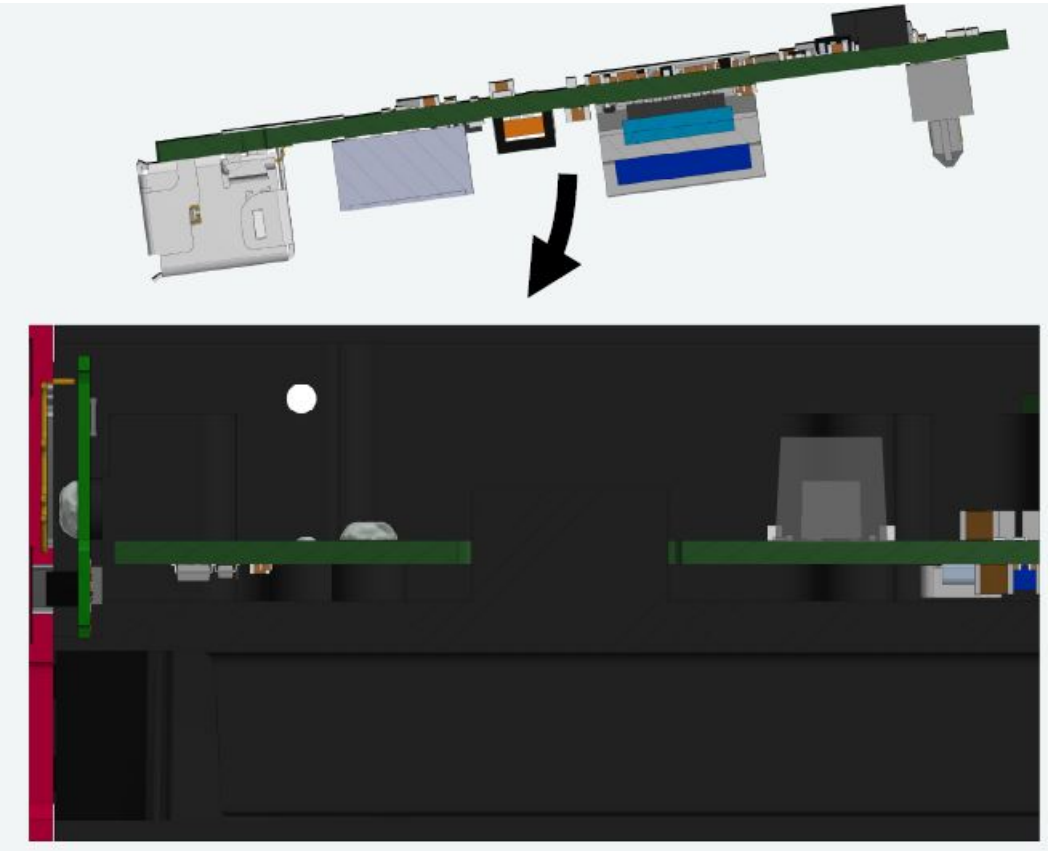
5. It will click into place:



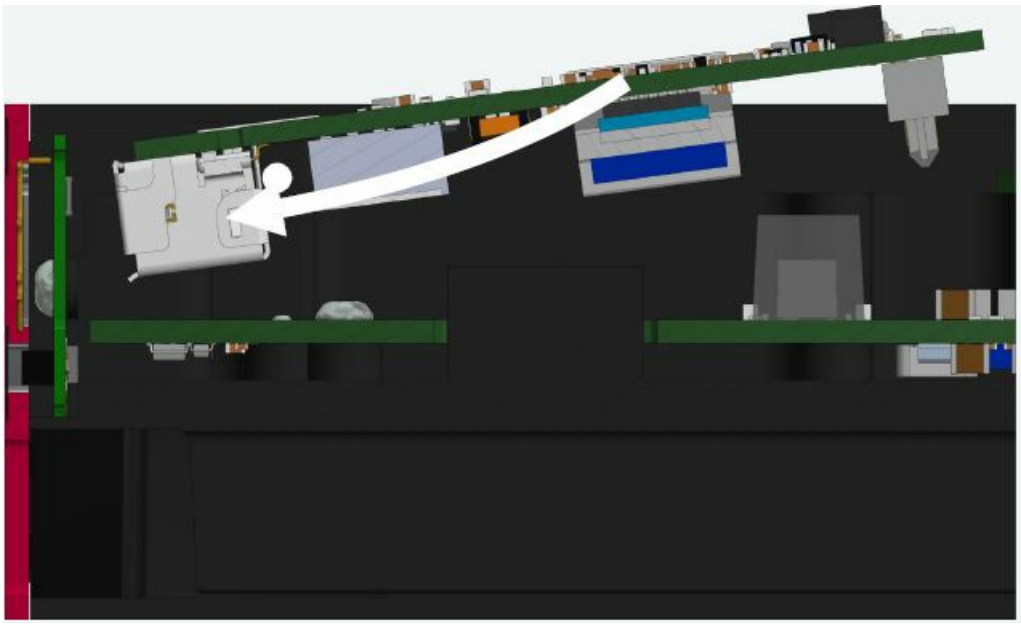
6. Repeat step 4 with the other sockets.



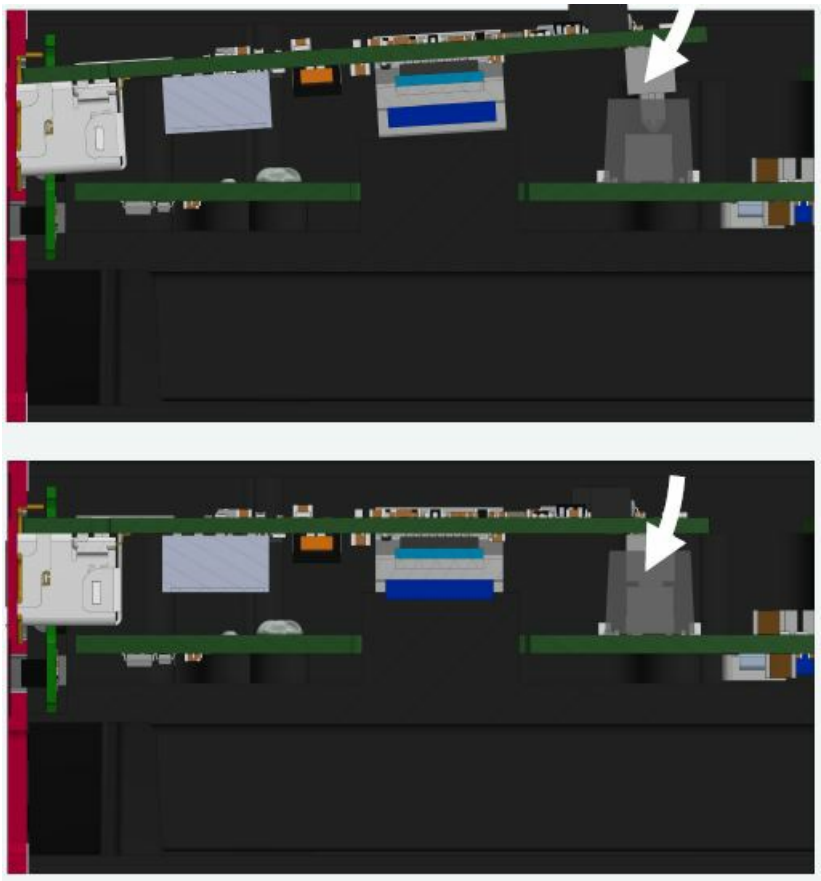
7. Hold the module over the corresponding slot on the main board.



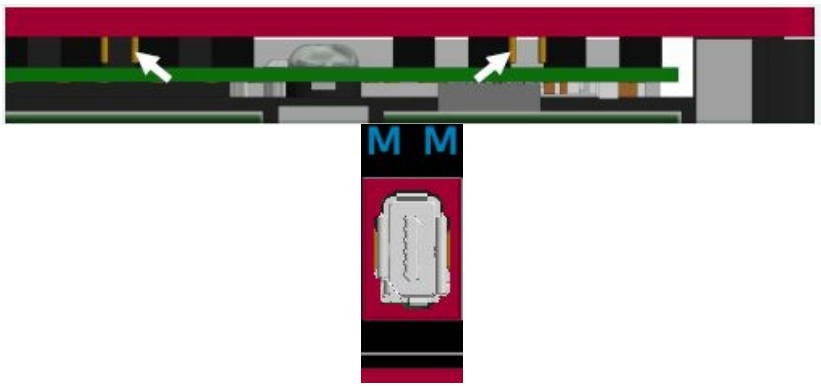
8. Slide the module towards the front panel and through its openings until the connectors are flush with the outside of the front panel.



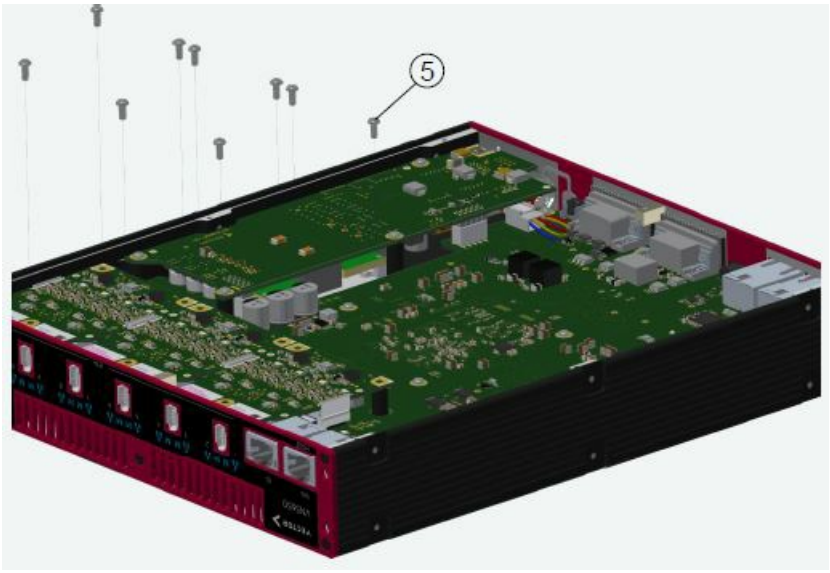
9. Carefully connect the rear connector of the module to the main board connector. Insert the module as vertically as possible.



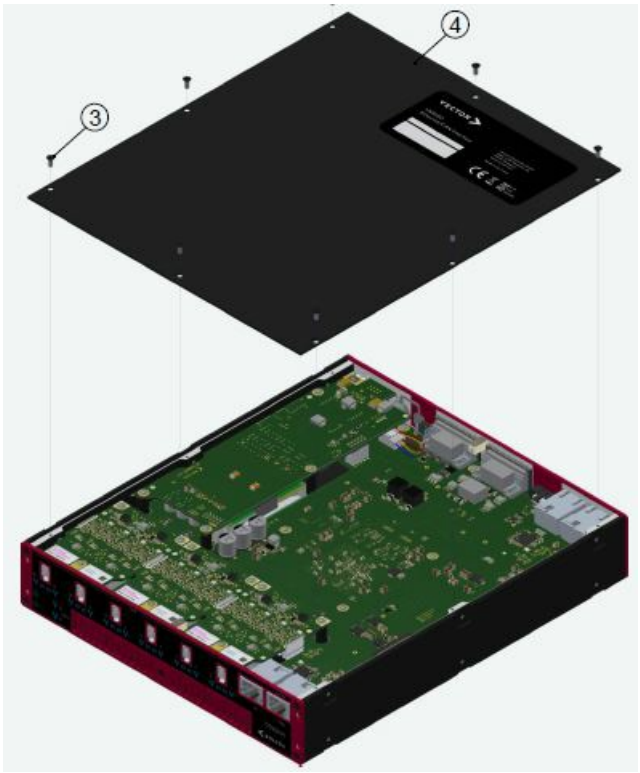
10. Check the correct position of the EMC spring after assembly.



11. Tighten all screws (5) of each replaced module with a Torx TX 8 screwdriver to a torque of 0.5 Nm.



12. Tighten all eight screws (3) of the device bottom cover (4) using a Torx TX 8 screwdriver to a torque of 0.5 Nm.



13. Tighten all four screws (1) of the VSH Equipment Feet (2) with a Torx TX 10 screwdriver to a torque of max. 0.9 Nm.

Important Notes – Details

Safety Instructions and Hazard Warnings
Caution!: In order to avoid personal injuries and damage to property, you have to read and understand the following safety instructions and hazard warnings prior to installation and use of this interface. Keep this documentation (manual) always near the interface.

Proper Use and Intended Purpose

- Caution!
  - The interface is designed for analyzing, controlling and otherwise influencing control systems and electronic control units. This includes, inter alia, bus systems like CAN, LIN, K-Line, MOST, FlexRay, Ethernet, BroadR-Reach and/or ARINC 429.
    The interface may only be operated in a closed state. In particular, printed circuits must not be visible.
    The interface may only be operated
    - according to the instructions and descriptions of this manual
    - with the electric power supply designed for the interface, e.g. USB-powered power supply; and
    - with accessories manufactured or approved by Vector.
  - The interface is exclusively designed for use by skilled personnel as its operation may result in serious personal injuries and damage to property. Therefore, only those persons may operate the interface who
    - have understood the possible effects of the actions which may be caused by the interface;
    - are specifically trained in the handling with the interface, bus systems and the system intended to be influenced; and
    - have sufficient experience in using the interface safely.
  - The knowledge necessary for the operation of the interface can be acquired in work-shops and internal or external seminars offered by Vector. Additional and interface specific information, such as „Known Issues“, are available in the „Vector KnowledgeBase“ on Vector´s website at **www.vector.com**. Please consult the „Vector KnowledgeBase“ for updated information prior to the operation of the interface.

Hazards

- Caution!
  - The interface may control and/or otherwise influence the behavior of control systems and electronic control units. Serious hazards for life, body and property may arise, in particular, without limitation, by interventions in safety relevant systems (e.g. by deactivating or otherwise manipulating the engine management, steering, airbag and/or braking system) and/or if the interface is operated in public areas (e.g. public traffic, airspace). Therefore, you must always ensure that the interface is used in a safe manner.
  - This includes, inter alia, the ability to put the system in which the interface is used into a safe state at any time (e.g. by „emer-gency shutdown“), in particular, without limitation, in the event of errors or haz-ards.
  - Comply with all safety standards and public regulations which are relevant for the operation of the system. Before you operate the system in public areas, it should be tested on a site which is not accessible to the public and specifically prepared for performing test drives in order to reduce hazards.

Disclaimer

- **Caution!**
  - Claims based on defects and liability claims against Vector are excluded to the extent damages or errors are caused by improper use of the interface or use not according to its intended purpose. The same applies to damages or errors arising from insufficient training or lack of experience of personnel using the interface.

Disposal of Vector Hardware

- Please handle old devices responsibly and observe the environmental laws applicable in your country. Please dispose of the Vector hardware only at the designated places and not with the household waste.
- Within the European Community, the Directive on Waste Electrical and Electronic Equipment (WEEE Directive) and the Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS Directive) apply.
- For Germany and other EU countries, we offer free take-back of old Vector hardware.
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- Before shipping, please register your old device via: **https://www.vector.com/int/en/support-downloads/return-registration-for-the-disposal-of-vector-hardware/**

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Documents / Resources

	VECTOR VNmodule60 Replacement Module [pdf] Instructions VNmodule60, VNmodule60 Replacement Module, Replacement Module, Module

References

- Vector Group | Vector
- Vector Group | Vector
- Rückgabeanmeldung für die Entsorgung von Vector Hardware | Vector
- Return Registration for the Disposal of Vector Hardware | Vector