

# Installation of a SFP Module with Ferrofisch Products

Our products Pulse16 and Verto MX use SFP modules for connectivity to MADI. Using the SFP modules makes it easy to upgrade to MADI or change the connection. At the moment we offer two different types of modules:

- Multimode (default)
- Singlemode

SFP modules use a smaller socket, called LC, while fixed mounted modules use SC sockets. When purchasing the optical cable, please pay attention to the correct connectors (eg LC to SC) as well as the transmission types (singlemode or multimode). You will find a selection of different cables and adapters at your dealer, as well as in our webshop.

When purchasing an SFP module, please note that not every module is suitable for the transmission of MADI signals, which is why we can guarantee faultless operation for our modules only.

## ***Verto MX / Pulse16 MX***

The Verto MX and Pulse16 MX are shipped with a multimode module and LC / SC cable by default. You can easily replace the multimode module with a singlemode module. Please note that a singlemode cable has to be used in that case.

## ***MADI Upgrade Pulse16 to Pulse16 MX***

The Pulse16 has an empty SFP slot that allows you to retrofit MADI. In addition to the SFP module, you will need a paid upgrade of the Pulse16 firmware:

1. To receive the upgrade, please visit our webshop or contact us via email [info@ferrofisch.de](mailto:info@ferrofisch.de)
2. Please tell us the serial number of your device. It can be found on the left side of the screen after pressing MENU.
3. We will send you the code for the upgrade.
4. Please select the item MADI SFP in the menu.
5. There you can now enter the code. Use SELECT to select the first digit, then press MENU to move to the next digit. When done, hold down the MENU button for quite some time.
6. After successful confirmation, all MADI functions are now available to you.

## ***Removing a SFP Module***

The SFP module is locked against unintentional removal. To release the lock, please proceed as follows:

1. Remove the optical cable or the rubber dust cap.
2. Now you can fold down the bar at the top of the module. This removes the lock.
3. Now pull on the bracket to remove the module
4. Protect the socket again with the dust cap.

## ***Inserting a SFP Module***

- The module can be inserted with the clip closed.
- Please make sure that the lock is engaged.
- If the module is not connected to a cable, please leave the dust cover on the socket to prevent contamination.