Server installation

The following chapter will give you an overview on how to install an maintain your RECS®|Box. When working on the RECS®|Box always wear **ESD protection** equipment.

Rack mounting

Carrier replacement

When removing a Carrier always **work very carefully** and **do not bend** the baseboards **nor use greater force** to get them into place.

Compute module installation

When changing a module shut down all modules on the respective carrier and turn the power for the modules off in the managemant GUI. The rest of the system can stay powered.

COM Express module

Before installing a COM Express module check if the RAM is installed, and that the heatspreader is correctly mounted, and depending on the module if all thermal pads are in place. Also the orientation of the heatsink fins has to follow the airflow trough the case. The cooling fins have to point from the front to the back of the carrier.
The screwholes where the module lays on the spacer bolts (8 mm in height) have to be free. Or smaller spacer bolts (5 mm high) have to be installed.

1. When the module is ready to be plugged in place the two holes next to the COM Express connector over the corresponding spacer bolt. Then slide the outer CXP connector into the outer connector on the baseboard. Do this while tilting the module a bit, so that only the outer connector slides in
2. Then push the module down where the connector is by pressing on the heatsink. While holding the pressure push the module down with a luffing movement on the end where no CXP connector is. The module should now slide into the second CXP connector and be in place
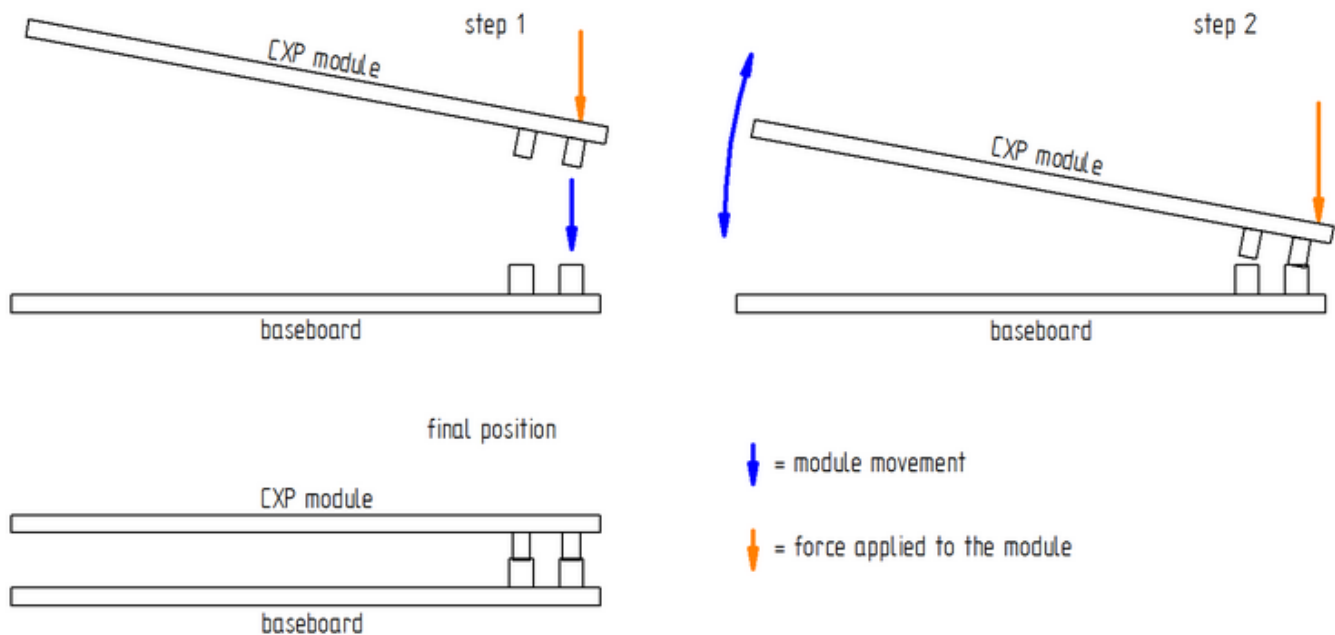3. check if the module is mounted correctly and is not loose

Fig. 1

When starting the module for the first time after installation, it is necessary to set the time again, as the modules don't have an own battery and are provided with electricity for the clock by the battery on the RECS|Box backplane.

Nvidia Jetson module

Extension card installation

Fan replacement

A fan that has damaged blades schould be **replaced immediately**, because the bearing will break very fast due to the imbalance and resulting vibrations.
When changing a fan on a working system watch out that the system is not overheating during the changing process.