



# Synology DiskStation DS412+ RAM Replacement

Replace the RAM in your Synology DiskStation DS412+.

Written By: gieljnssns



## INTRODUCTION

Use this guide to replace the RAM.

The processor in the DS412+ supports DDR3 800/1066MHz RAM modules

### TOOLS:

- [Phillips #2 Screwdriver](#) (1)
- [Heavy-Duty Spudger](#) (1)

### PARTS:

- [DDR 3 204-Pin SODIMM PC3-8500](#) (1)

## Step 1 — DS412+



- DS412+
- Remove the front panel

## Step 2



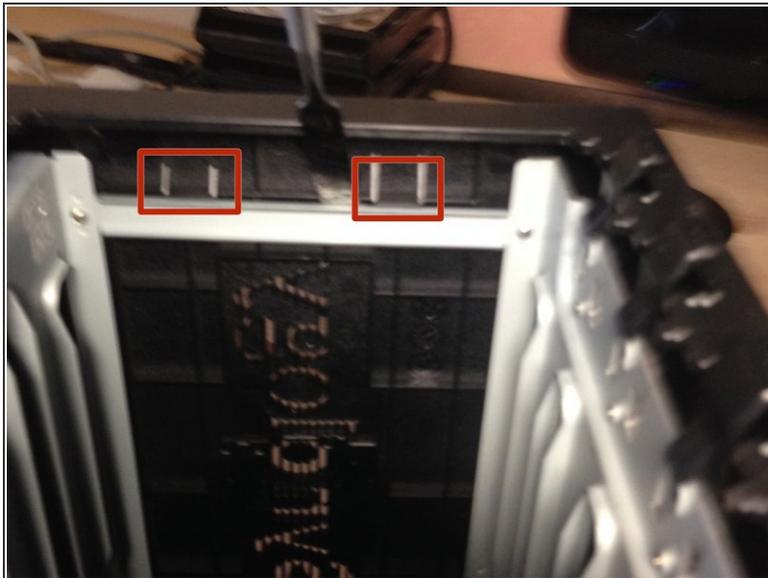
- Remove the hard disks

### Step 3



- Remove the two screws in the back of the NAS, on the top and bottom.

### Step 4



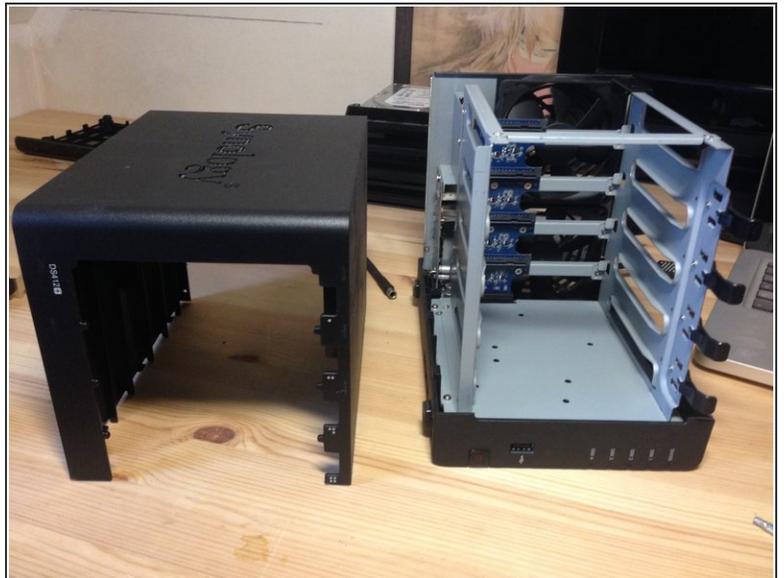
- Locate those 2 tabs on the left side inside the device.
- Lift them up off the metal brace
- ⚠ You may have to bend the metal support bar to remove the case. Bend it back if you do.

## Step 5



- Push the case away towards the back about 1 cm

## Step 6



- With the NAS on its right side, lift up the enclosure, mind the tabs on the top of the case.

## Step 7



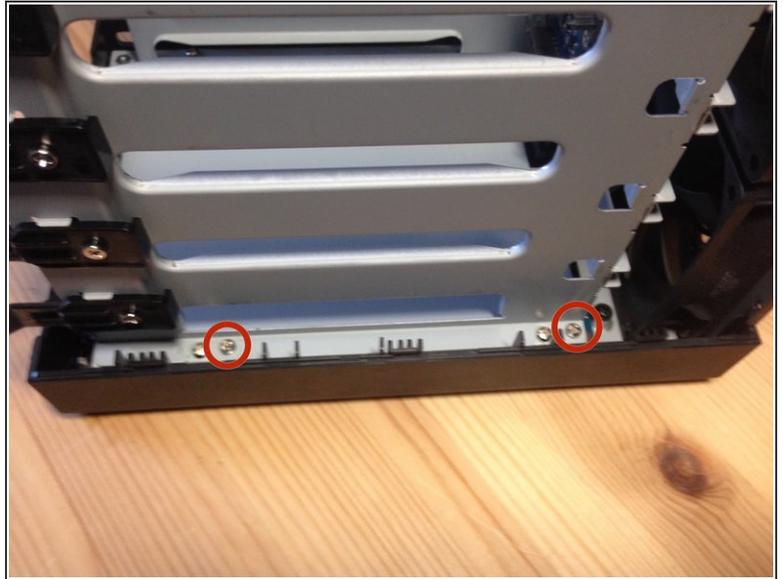
- Remove the screw securing the HDD bays enclosure.

## Step 8



- Remove the screw securing the I/O board.

## Step 9



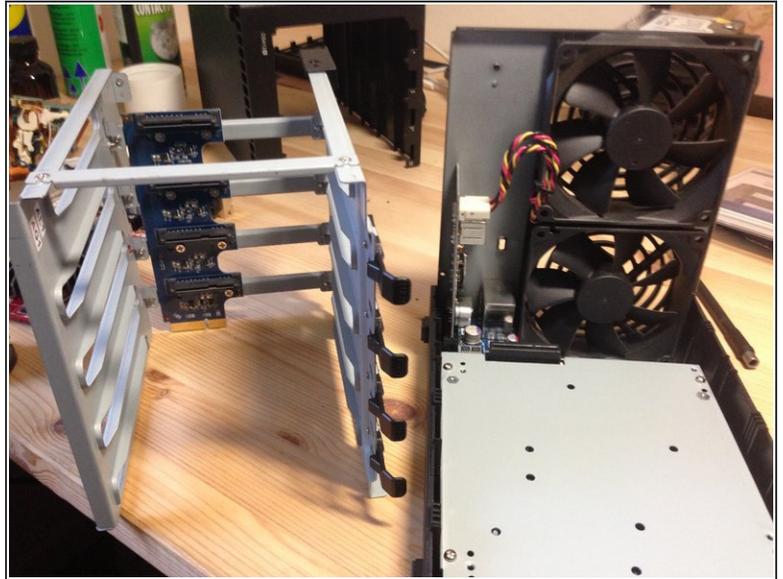
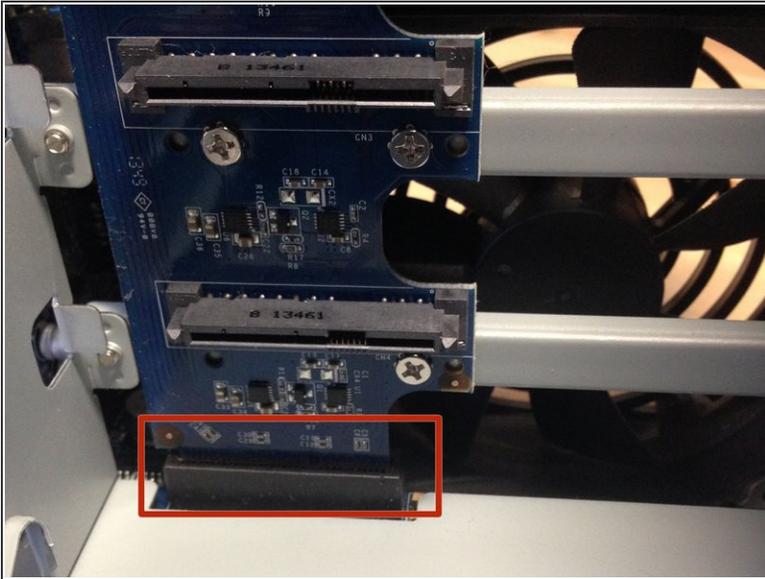
- Remove the four screws securing the HDD bays

## Step 10



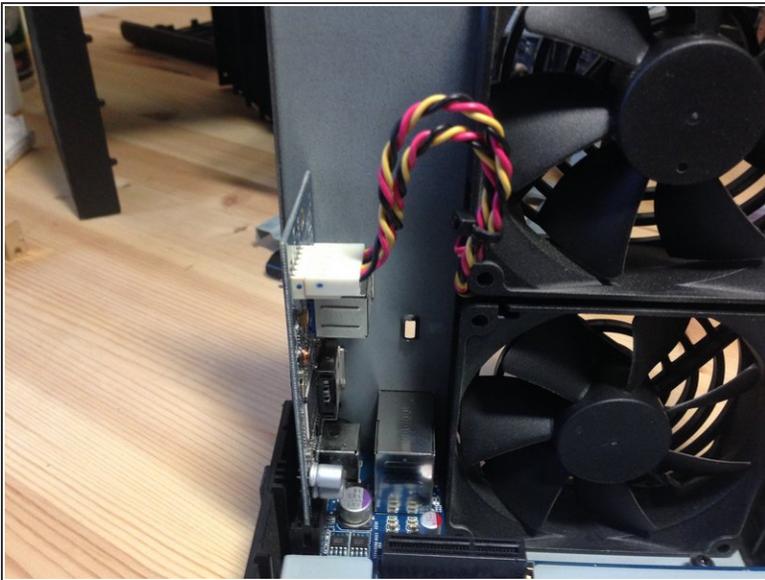
- Pull the fan a little bit away

## Step 11



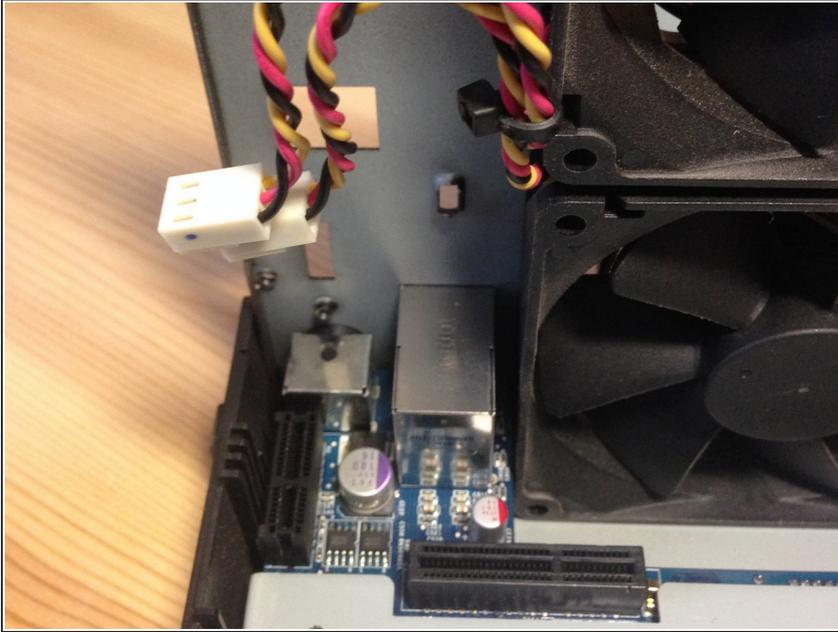
- Watch out for this plug
- Lift the metal bracket out

## Step 12



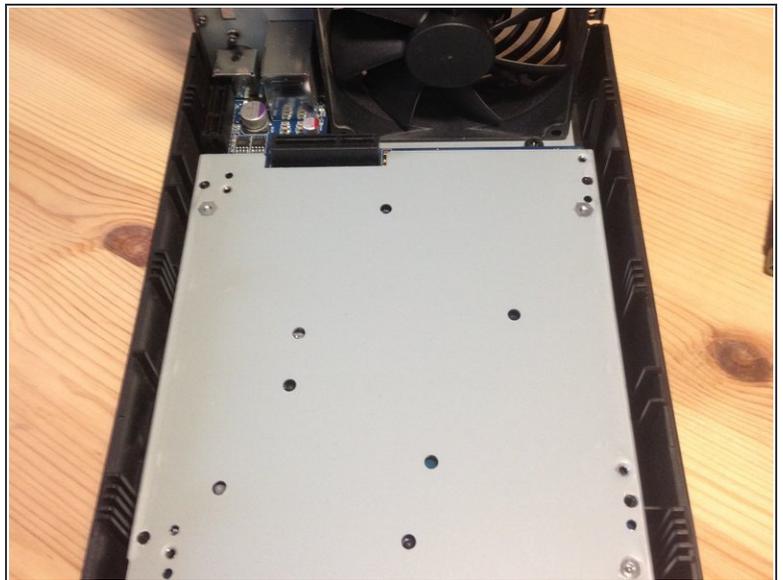
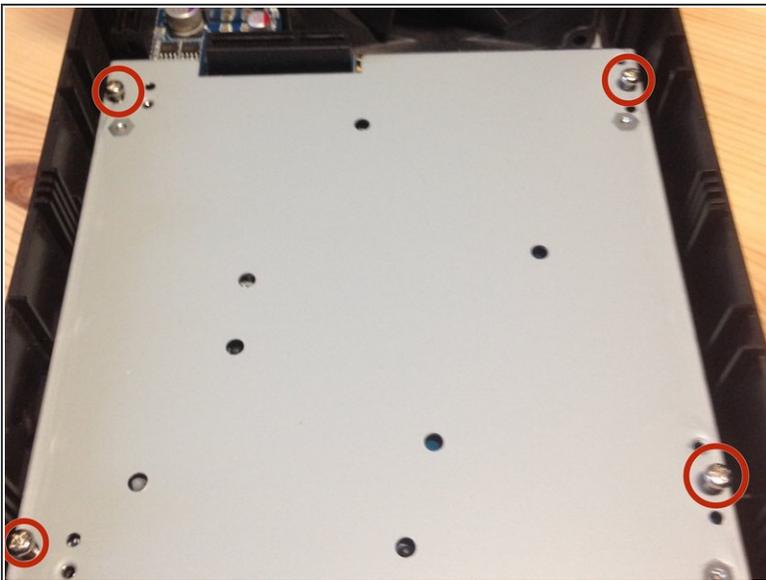
- Remove the fan power headers

## Step 13



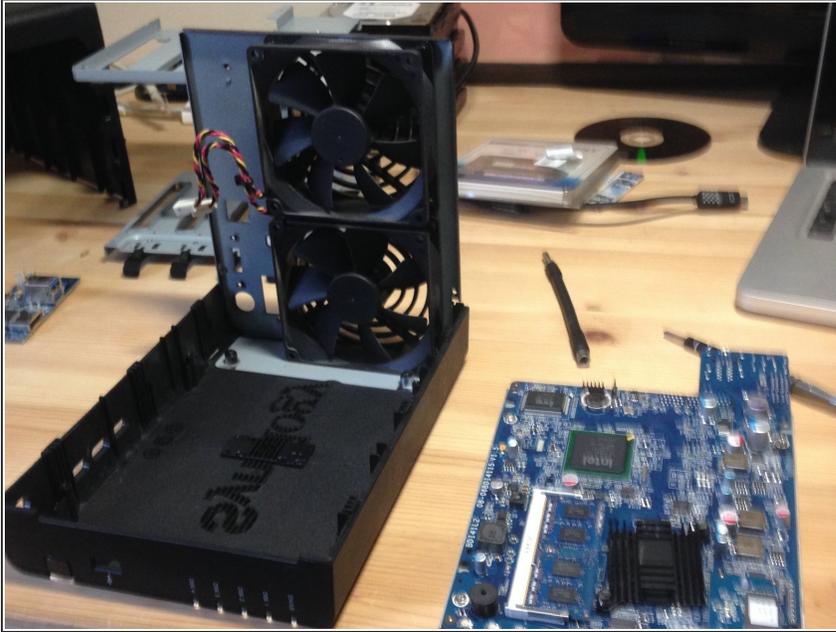
- Remove the I/O board by lifting it up

## Step 14



- Remove those 4 screws

## Step 15



- Starting from the front of the unit, remove the motherboard from the unit.

## Step 16



- Pull these tabs and remove the ram
- Old and new Ram
- The old RAM's part number is: M3SN-1GSFCCM7-GA14
- To reassemble your device, follow these instructions in reverse order.

To reassemble your device, follow these instructions in reverse order.

