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## Assembly Instructions

### HC(S)12 ActivePODs

This paper describes assembly of the HC(S)12 ActivePODs, which is different depending on the target connection.

Typical HC(S)12 ActivePOD emulation system consists of:

- IC30001 – iC3000 ActiveEmulator (COM/USB/ETH)
- IC30203 - iCard ActiveEmulator II with Trace
- IC30250 – ActivePOD Emulator Module II
- IC3040x – CPU specific ActivePOD module
  - IC30400 – MCS912DP256 ActivePOD module
  - IC30401 – HC912DT128A ActivePOD module
  - IC30402 – HC912GA32 ActivePOD module
  - IC30403 – MC9S12H256 ActivePOD module
  - IC30404 – MC9S12DP512 ActivePOD module
  - IC30405 – MC9S12 EXPANDED ActivePOD module
  - IC30406 – MC9S12C32 ActivePOD module
  - IC30407 – MC9S12E128 ActivePOD module
  - IC30408 – MC9S12HZ256 ActivePOD module
  - IC30409 – MC9S12DP512 ActivePOD module
- IC-SW-OPR – Original Professional License winIDEA
- Target Adapter

HC(S)12 ActivePOD consists of at least two units, an universal emulation and a CPU specific module.

IC30250 is a universal ActivePOD Emulator II module, which can be used with several ActivePOD CPU specific modules.

IC3040x is a CPU specific ActivePOD module and is used with IC30250.

The HC(S)12 ActivePODs can be connected to the target using iSYSTEM target adapter. iSYSTEM offers both, flexible and fixed adapter solutions. Contact your local distributor or visit iSYSTEM web site to get more details on adapter solutions.

HC(S)12 ActivePOD system is assembled differently, depending on the adapter type used. This document focuses on assembly of HC(S)12 ActivePOD:

- without the target adapter
- with a flexible target adapter
- with a fixed target adapter

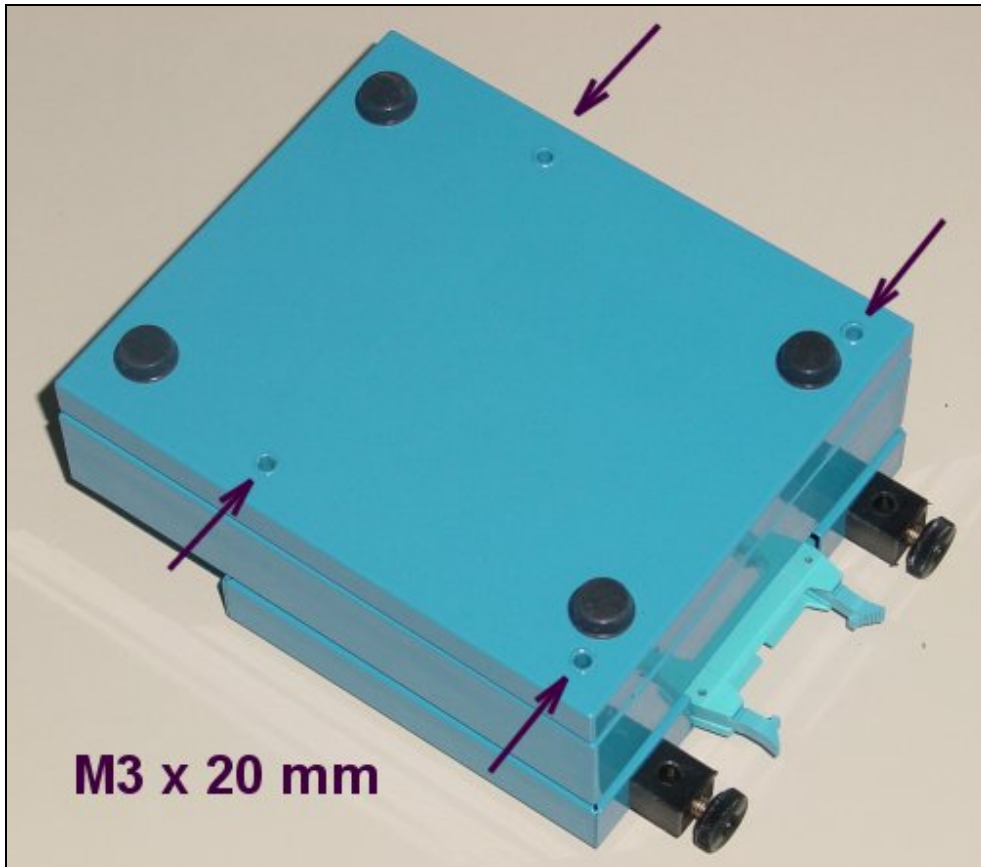
After the HC(S)12 ActivePOD is assembled, connect 40-pin iCARD header connector to the Active POD. Then, connect the iC3000 emulator to the PC where winIDEA™ is installed and finally, insert iCARD into the iC3000. Now, the complete emulation system is assembled and ready for the debugging.

► **HC(S)12 ActivePOD without the target adapter**

Carefully, assemble IC30250 and IC3040x together. Next, place the cover at the bottom side of the IC3040x and screw it down with 4 long screws (M3 x 20 mm). The ActivePOD is assembled.



*HC(S)12 ActivePOD parts ready for assembly*



*Last phase: Screw down the bottom cover to the IC3040x*



*Assembled HC(S)12 ActivePOD without the target connection*

## ➤ HC(S)12 ActivePOD with a flexible target adapter

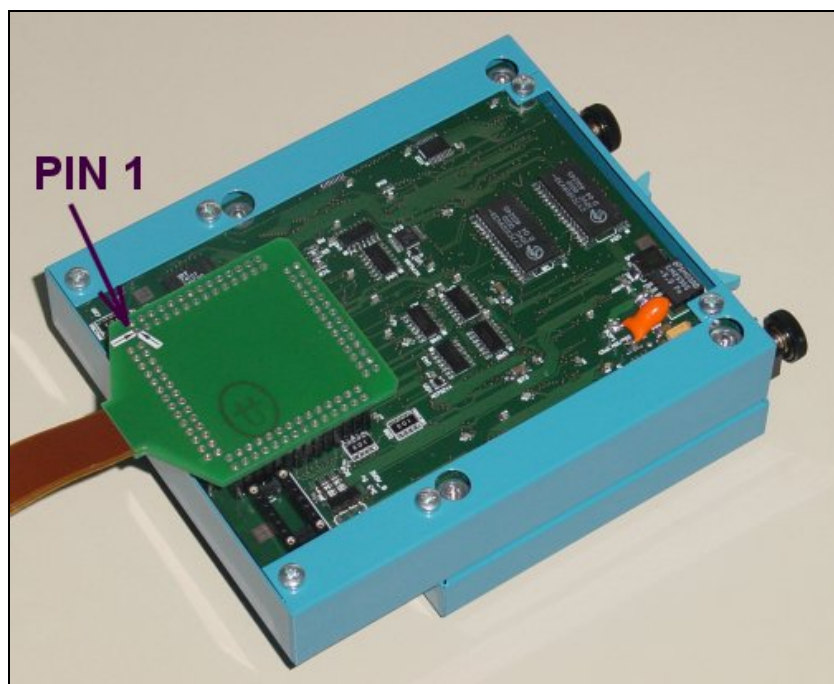
In this particular case, a flexible Yamaichi QFP112 adapter is used. Flexible TET QFP112 adapter can be purchased as well.

IA112YAM-FLEX and IA112YAM-SOLDER parts are required to connect the POD to the target via flexible cable. Refer to the adapters documentation, delivered beside the ActivePOD, for more details on available adapter solutions.

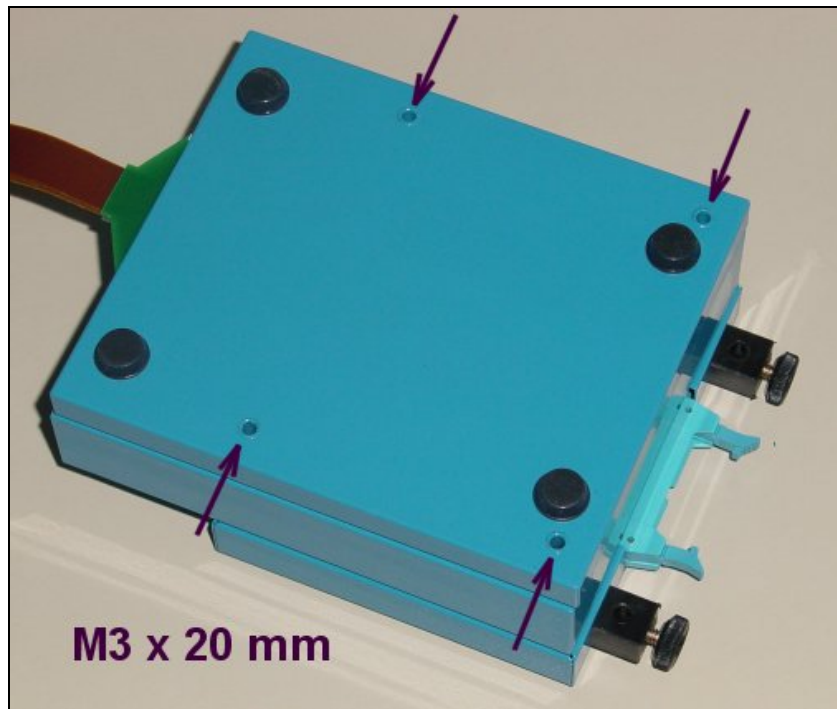
Connect IA112-FLEX to the IC3040x. Next, assemble IC30250 and IC3040x together, carefully. Finally, place the cover at the bottom side of the IC3040x and screw it down with 4 long screws (M3 x 20 mm). The ActivePOD is assembled.



*HC(S)12 ActivePOD ready for assembly*



*IA112YAM-FLEX connected to the IC3040x*



**M3 x 20 mm**

*Last phase: Screw down the bottom cover to the IC3040x*



*Assembled HC(S)12 ActivePOD with flexible target adapter*

## > HC(S)12 ActivePOD with a fixed target adapter (QFP112)

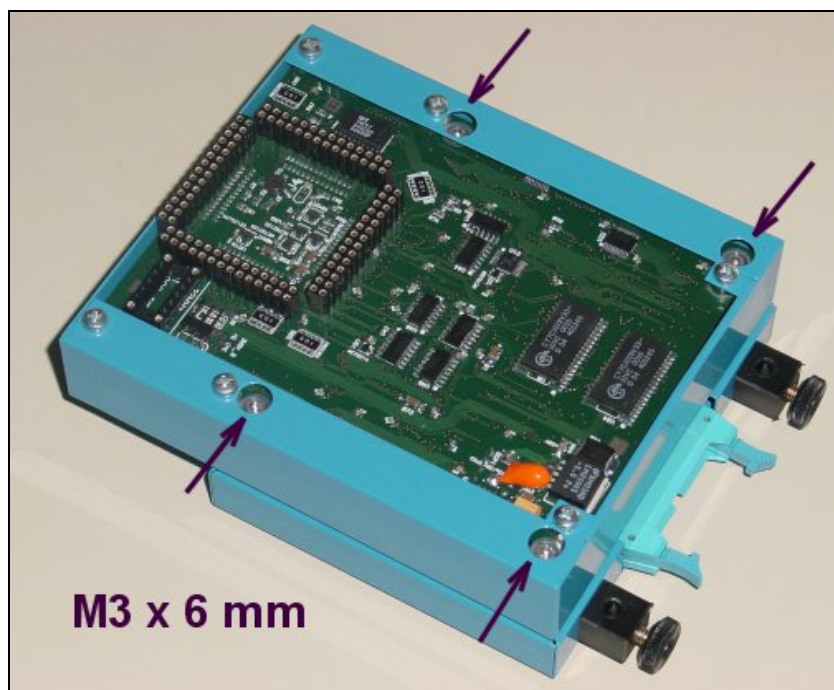
In this particular case, fixed Yamaichi QFP112 adapter is used. Fixed TET QFP112 adapter can be purchased as well.

IA112YAM-FIXED and IA112YAM-SOLDER parts are required to connect the POD to the target via fixed connection. Refer to the adapters documentation, delivered beside the ActivePOD, for more details on available adapter solutions.



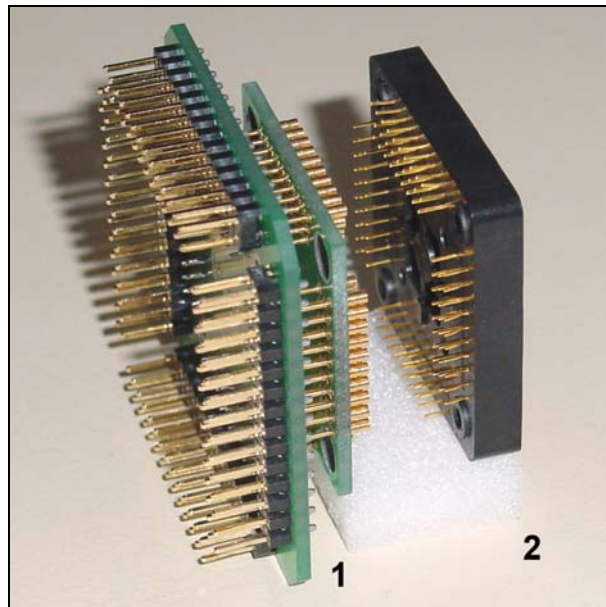
*HC(S)12 ActivePOD ready for assembly*

If a fixed target adapter is used, a bottom cover is not used. Screw down the IC3040x to the IC30250 using 4 short screws (M3 x 6 mm).



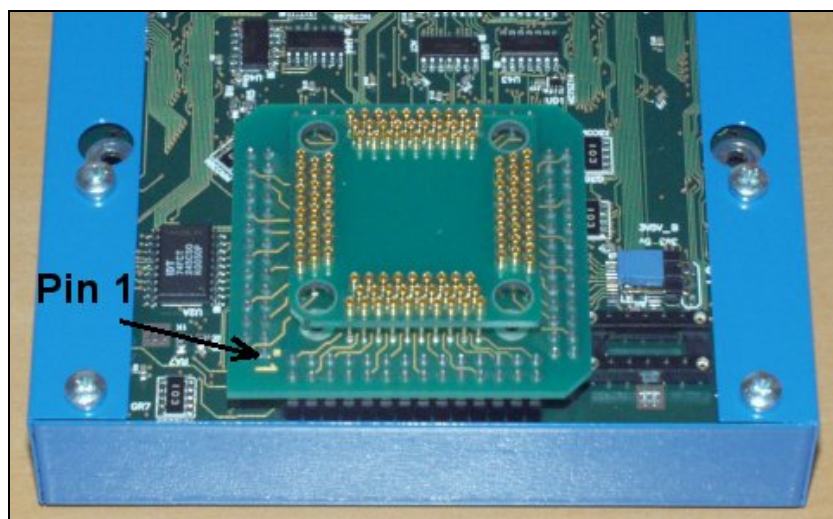
*The bottom cover screwed down to the IC3040x*

Disassemble the IA112YAM-FIXED.



*Disassembled IA112YAM-FIXED*

Next, connect part 1 of the IA112YAM-FIXED to the IC3040x.



*Part 1 of IA112YAM-FIXED connected to the IC3040x*

Then, assemble IC30250 and IC3040x together, carefully.



*Assembled HC(S)12 Active POD with fixed target adapter*

Plastic posts, delivered beside the ActivePOD, should be used when the ActivePOD is connected to the target via fixed target adapter. Without them, soldered part of the fixed adapter would easily break off because of the POD's weight.