
Adapters

QFP64 - Yamaichi

Target CPU package: QFP64
Body size: 14 mm x 14 mm
Pitch: 0.8 mm
POD target layout: T_QFP64

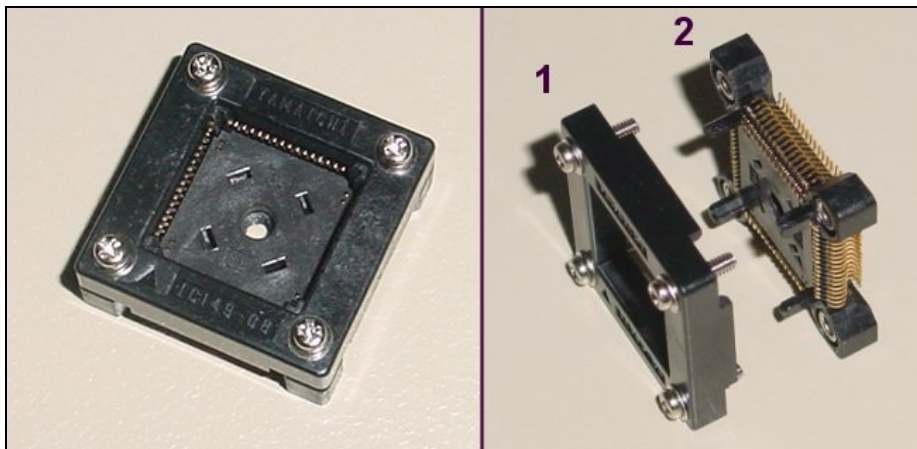
Can be used with:

- MC68EC000 Active POD
- 78K0/Kx1 Active PRO POD
- 78K0/Kx2 Active PRO POD
- 78K0/Fx2 Active PRO POD
- 68HC05X32 POD
- 68HC08AZ POD
- 68HC08AT (II)POD
- 68HC08MP POD
- 68HC08MR POD
- 68HC908AB32 (II) POD
- 68HC08GZ POD
- 68HC08LJ POD
- 68HC08LD POD
- EH-C508 POD
- ST72F511 POD
- ST72F561 POD
- ST7MC1/MC2 POD

Note that adapter solutions stated in the document can be used only with listed PODs. Disregarding this warning may result in hardware failure of the target and the emulation system.

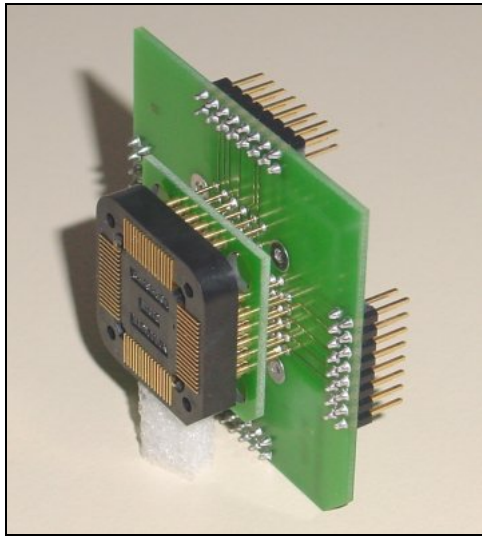
► Available Adapter Parts (by ordering code):

- **IA64YAM-SOLDER**



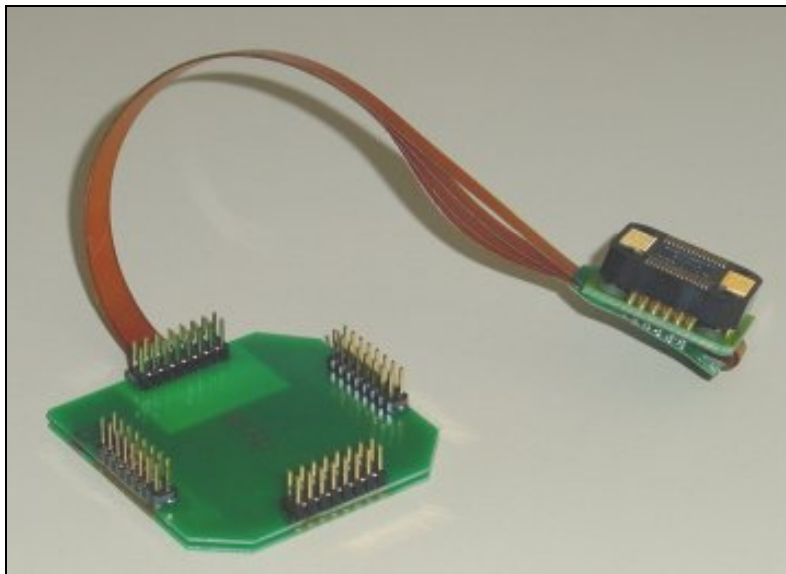
Solder part, which is being soldered to the target.

- **IA64YAM-FIXED**



The IA64YAM-FIXED represents fixed inflexible connection between the POD and the target.

- **IA64YAM-FLEX**



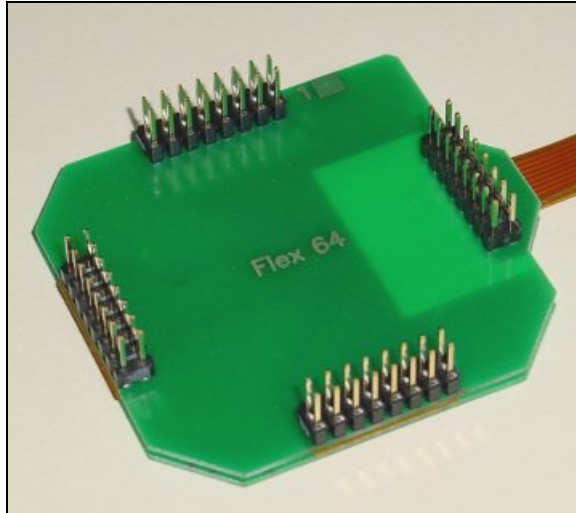
The IA64YAM_FLEX represents 155 mm flexible connection between the POD and the target.

- **IA64YAMEXT**

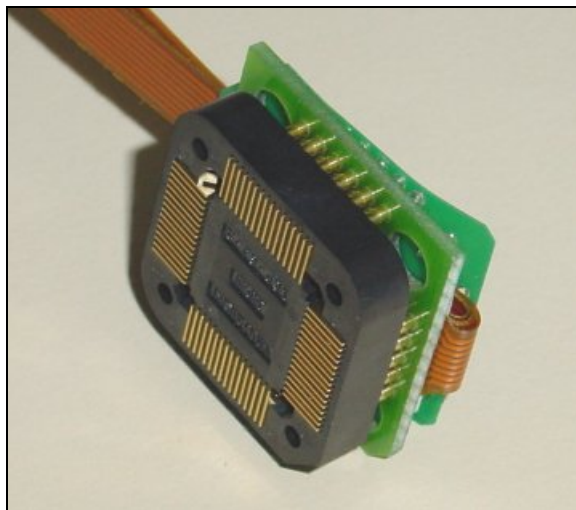
The IA64YAMEXT is a 10 mm extension that can be used to extend both, flexible and fixed adapter. When used, it is connected on top of the IA64YAM-SOLDER.

Flexible Adapter

The IA64YAM-FLEX and the IA64YAM-SOLDER are essential parts required to adapt the POD to the target QFP64 package. First, the IA64YAM-SOLDER (part 2) is soldered to the target and then the POD is connected via the IA64YAM-FLEX.



IA64YAM-FLEX: side connected to the POD



IA64YAM-FLEX: side connected to the IA64YAM-SOLDER

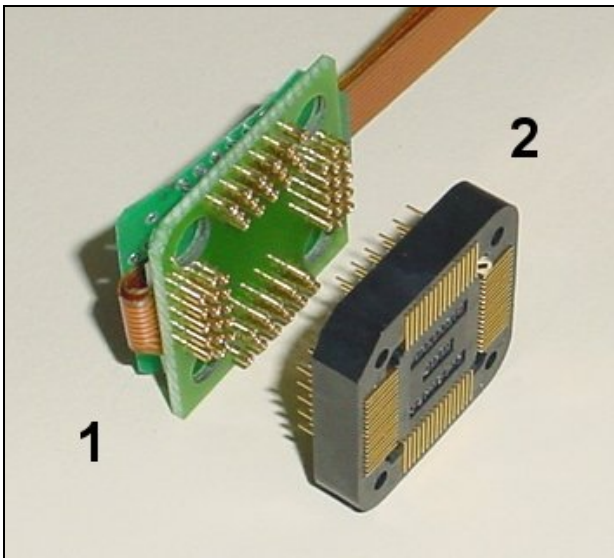
► Assembly

Pay attention to pin 1 while assembling the adapter and connecting the POD to the target. Improper use of the adapter or even incorrect adapter used with your particular POD can damage the emulation system and the target.

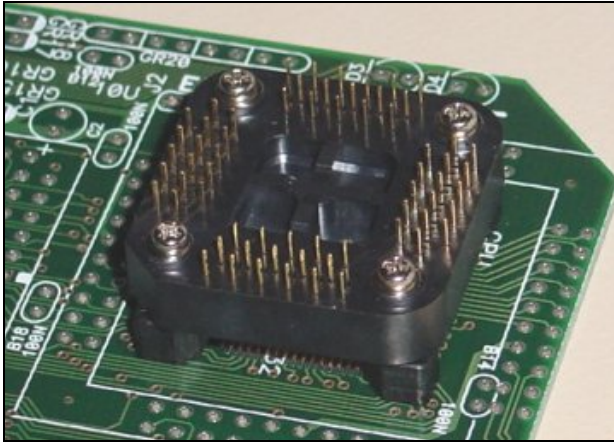
Phase 1: Solder the IA64YAM-SOLDER (part 2) to the target PCB.



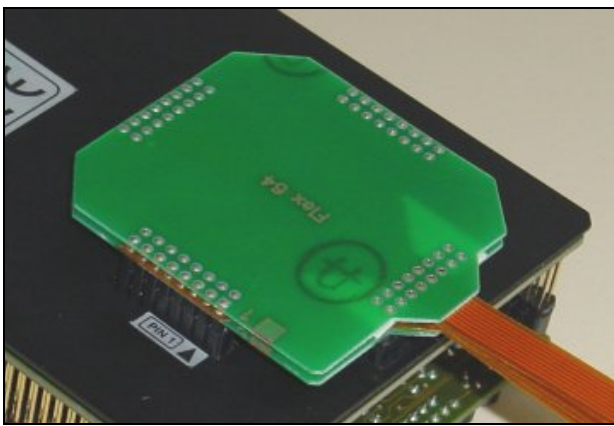
Phase 2: Disassemble the IA64YAM-FLEX



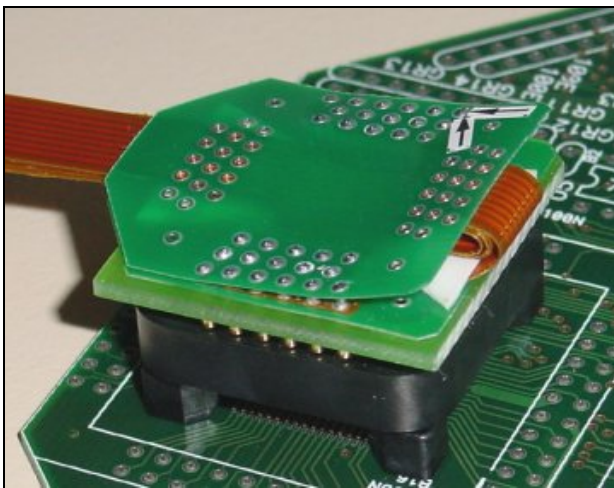
Phase 3: Place the IA64YAM-FLEX (part 2) on top of the soldered IA64YAM-SOLDER (part 2) and screw them together with four long (12 mm) screws. Now, if optionally the IA64YAMEXT is used, it must be placed on top. It is not used in this particular case.



Phase 4: Connect the IA64YAM-FLEX (POD side) to the POD.



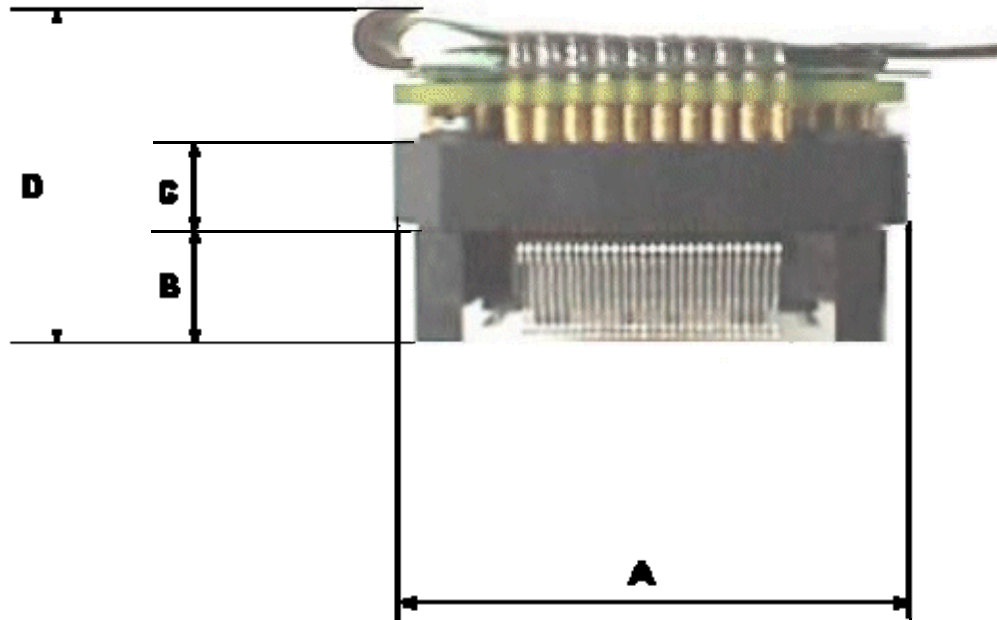
Phase 5: Connect the IA64YAM-FLEX to the target.



Note that some precaution must be taken to the POD adaptation after the POD is connected to the target. Otherwise, the part soldered to the target may break off.

► Dimensions

(Unit : mm)	A	B	C	D
Flexible Adapter - QFP64	28 x 28	5	6	21



Fixed adapter

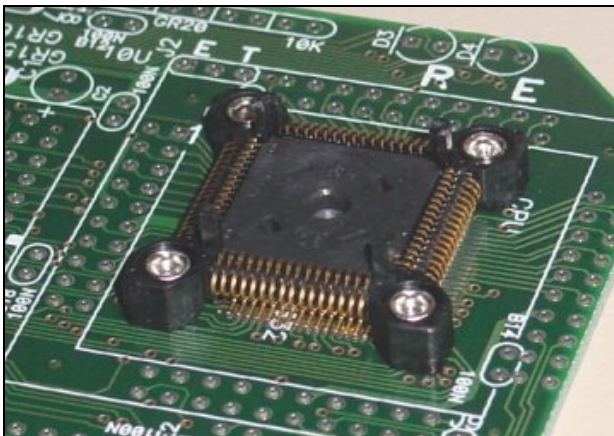
The IA64YAM-FIXED and the IA64YAM-SOLDER are essential parts required to adapt the POD to the target QFP64 package. First, the IA64YAM-SOLDER (part 2) is soldered to the target and then the POD is connected via the IA64YAM-FIXED.

A flexible adapter is highly recommended to be used with Active or ActivePRO POD since the parts of fixed adapter solution can easily break due to the Active and ActivePRO POD size and weight.

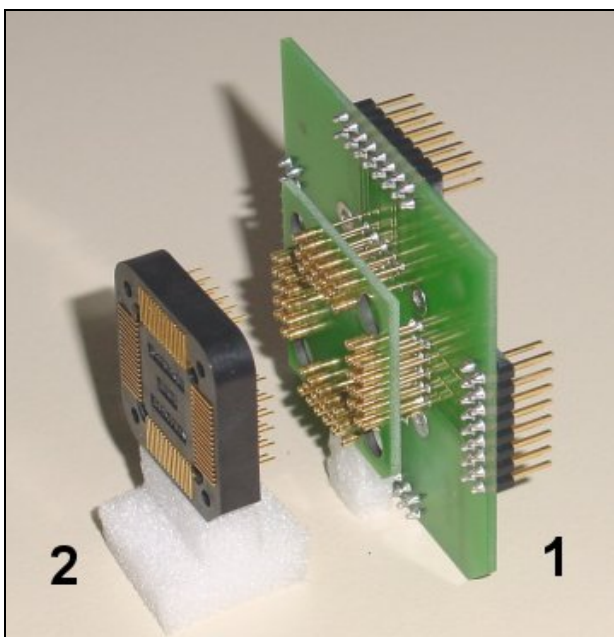
► Assembly

Pay attention to pin 1 while assembling the adapter and connecting the POD to the target. Improper use of the adapter or even incorrect adapter used with your particular POD can damage the emulation system and the target.

Phase 1: Solder the IA64YAM-SOLDER (part 2) to the target PCB.

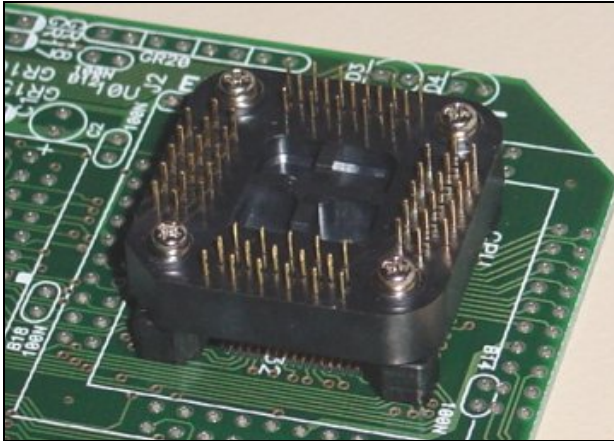


Phase 2: Disassemble the IA64YAM-FIXED.

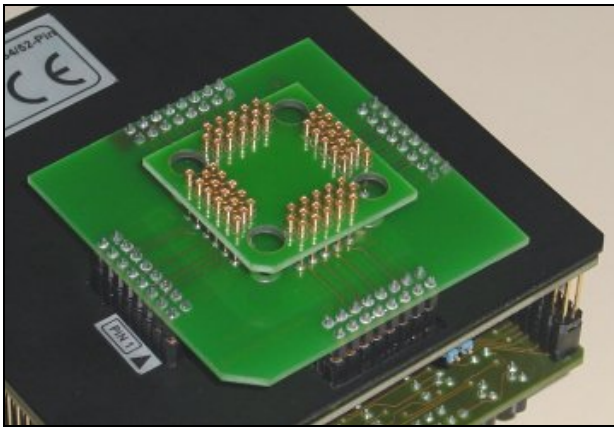


Phase 3: Place the IA64YAM-FIXED (part 2) on top of the soldered IA64YAM-SOLDER (part 2) and screw them together with four long (12 mm) screws.

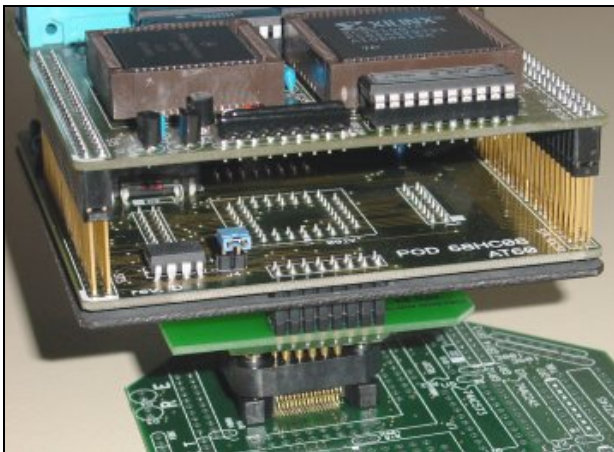
Now, if optionally the IA64YAMEXT is used, it must be placed on top. It is not used in this particular case.



Phase 4: Connect the IA64YAM-FIXED (POD side) to the POD.



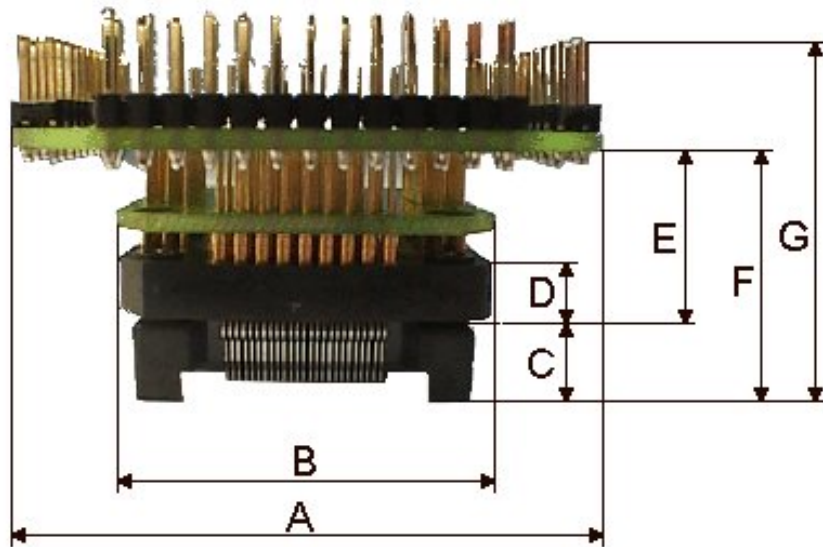
Phase 5: Connect the POD to the target via IA64YAM-FIXED.



Note that some precaution must be taken to the POD adaptation after the POD is connected to the target. Otherwise, the part soldered to the target may break off. From this aspect, a flexible adapter is much more suitable and recommended.

► Dimensions

(Unit : mm)	A	B	C	D	E	F	G
Fixed Adapter - QFP64	56 x 56	30 x 30	5	6	16	21	31



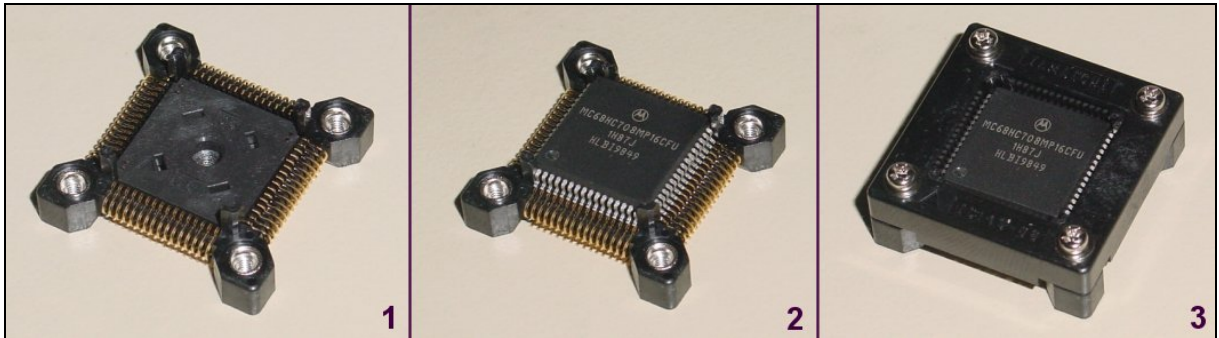
Connecting the CPU directly to the target

Using the IA64YAM-SOLDER, the CPU can be connected to the target, which is very suitable for an ultimate test.

Phase 1: Solder part 2 of the IA64YAM-SOLDER to the target.

Phase 2: Insert the CPU.

Phase 3: Place over part 1 of the IA64YAM-SOLDER and screw it down with four short (8 mm) screws.



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