

## Adapters

### QFP100 Yamaichi

Target CPU package: QFP100  
Body size: 14 mm x 14 mm  
Pitch: 0.5 mm  
POD target layout: T\_QFP100S

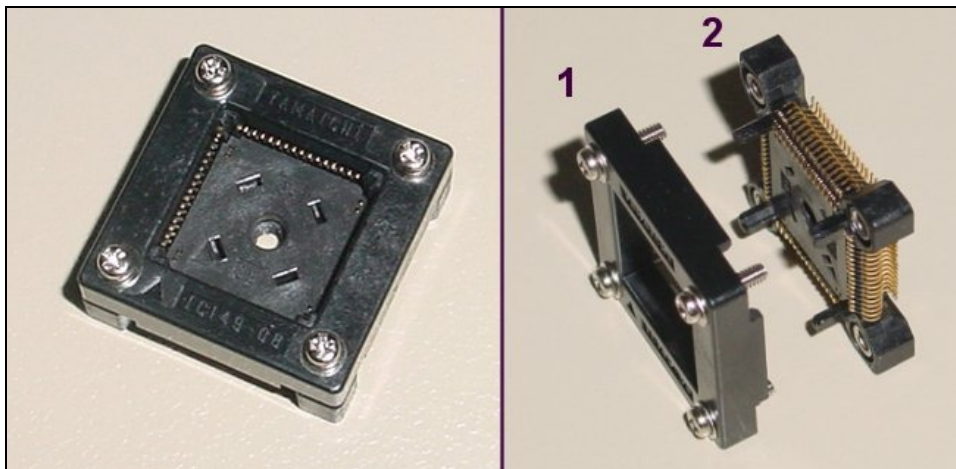
Can be used with:

- 78K0R/Fx3 ActiveGT POD
- MPC5604P Active GT POD
- MPC5604B Active GT POD
- SPC56AP Active GT POD
- NEC V850ES/Fx2 ActivePRO POD
- NEC V850ES/Sx2 ActivePRO POD
- NEC B850E/CG3 ActivePRO POD
- NEC B850E/CG4 ActivePRO POD
- NEC V850ES/GB1 ActivePOD
- TMS470Pxx\_3v3 Standard ActivePRO POD
- TMS470R1VB8x SE4 ActivePRO POD
- TMS470R1VB8 Standard ActivePRO POD
- TMS470R1VB8 I/O Extended ActivePRO POD
- 68HC08AZ POD
- MC68LC302 POD
- MC68LC302 Active POD

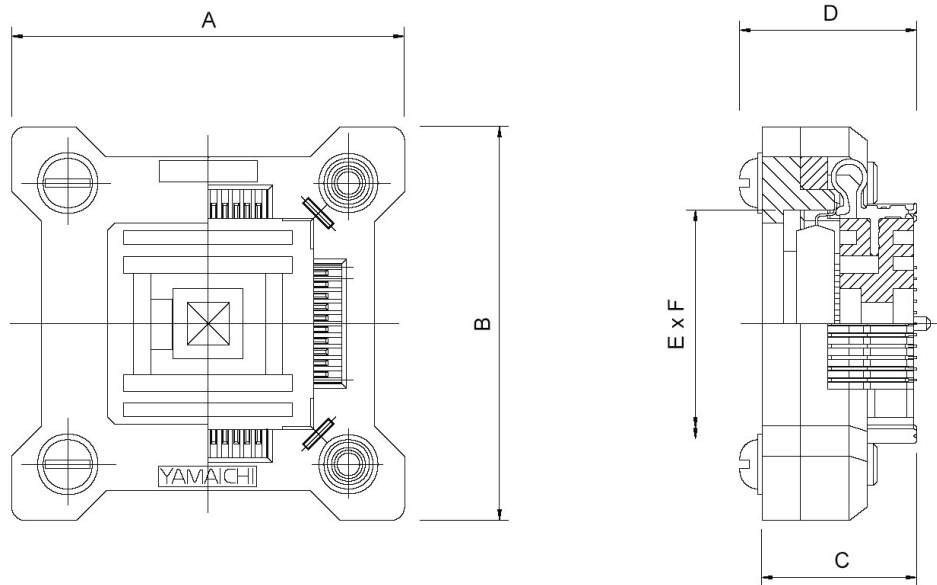
Note that adapter solutions stated in the document may be used only with listed PODs. Disregarding this warning may result in hardware failure of the target and the emulation system.

#### ► Available Adapter Parts (by ordering code):

- **IA100YAM-SOLDER**

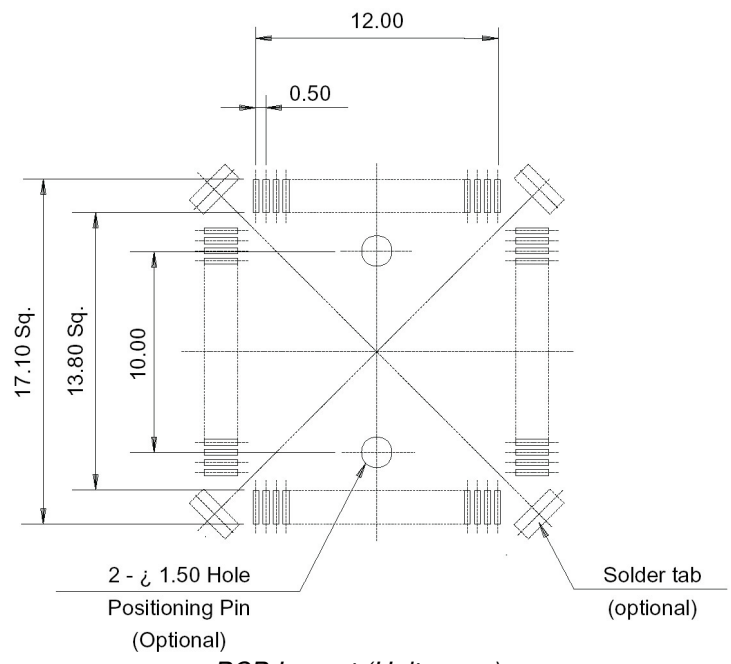


Solder part, which is being soldered to the target.



A	B	C	D	E x F
27.00	27.00	11.00	13.20	15.30 x 15.30

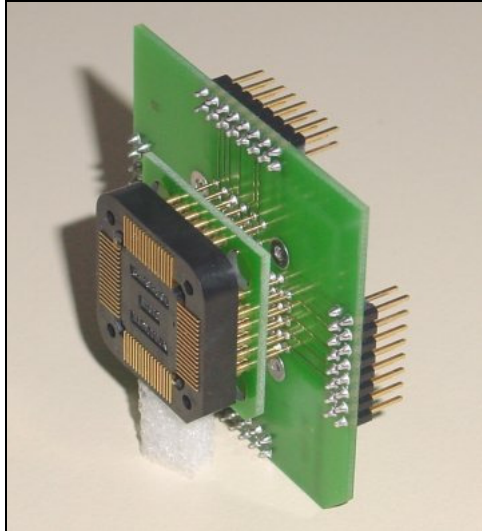
Socket Dimensions (Units: mm)



PCB Layout (Units: mm)

- **IA100PODQFP08**

**Note that this is a complete adapter already.** It consists of two parts, which together represent fixed inflexible connection between the POD and the target. In this document, parts are named IA100YAM-SOLDER and IA100PODQFP08-FIXED to simplify the assembly instructions.



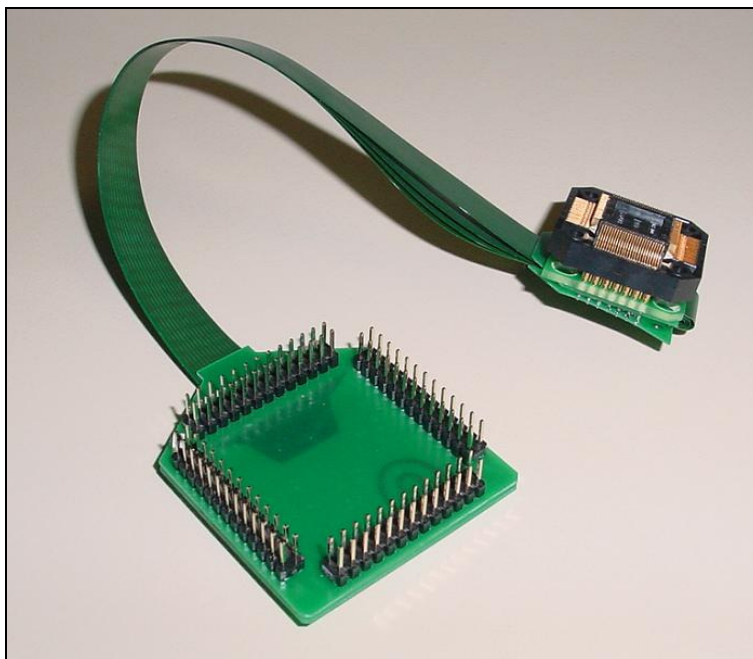
*IA100PODQFP08-FIXED*

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It's strongly dissuaded to use IA100PODQFP08 with Active and Active PRO/GT PODs due to the size of the POD and pitch & size of a solder part. Flexible adapter should be used instead.

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- **IA100YAM-FLEX**



The IA100YAM-FLEX represents flexible connection between the POD and the target.

## Flexible Adapter

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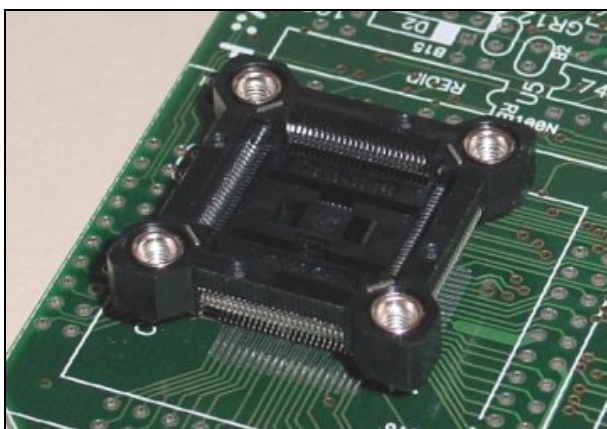
The IA100YAM-FLEX and the IA100YAM-SOLDER are essential parts required to adapt the POD to the target QFP100 package. First, the IA100YAM-SOLDER (part 2) is soldered to the target and then the POD is connected via the IA100YAM-FLEX.

### ► Assembly

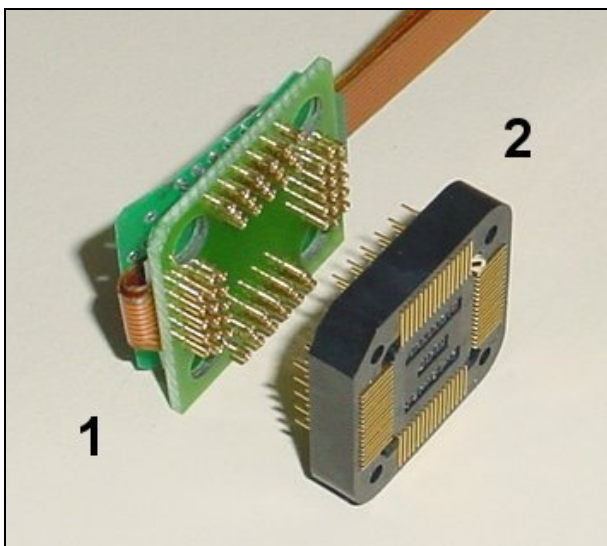
Pay attention to pin 1 while assembling the adapter and connecting the POD to the target. Improper use of the adapter or even incorrect adapter used with your particular POD can damage the emulation system and the target.

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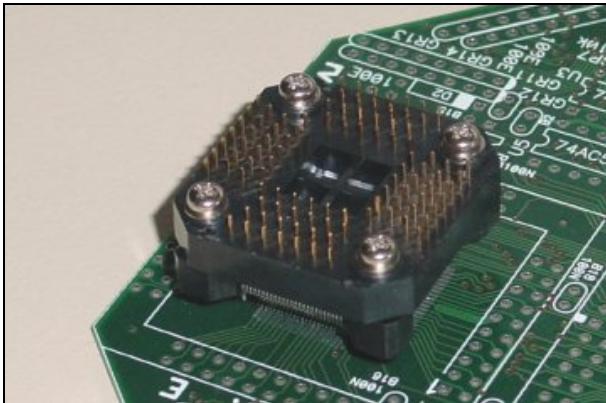
**Phase 1:** Solder the IA100YAM-SOLDER (part 2) to the target PCB.



**Phase 2:** Disassemble the IA100YAM-FLEX

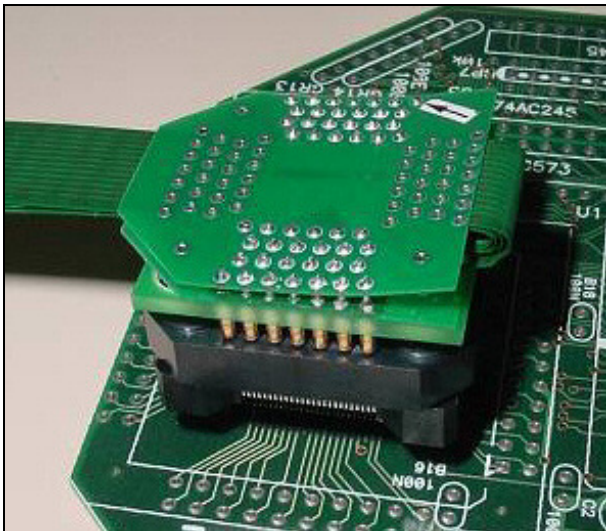


**Phase 3:** Place the IA100YAM-FLEX (part 2) on top of the soldered IA100YAM-SOLDER (part 2) and screw them together with four long (12 mm) screws.



**Phase 4:** Connect the IA100YAM-FLEX (POD side) to the POD.

**Phase 5:** Connect the IA100YAM-FLEX to the target.



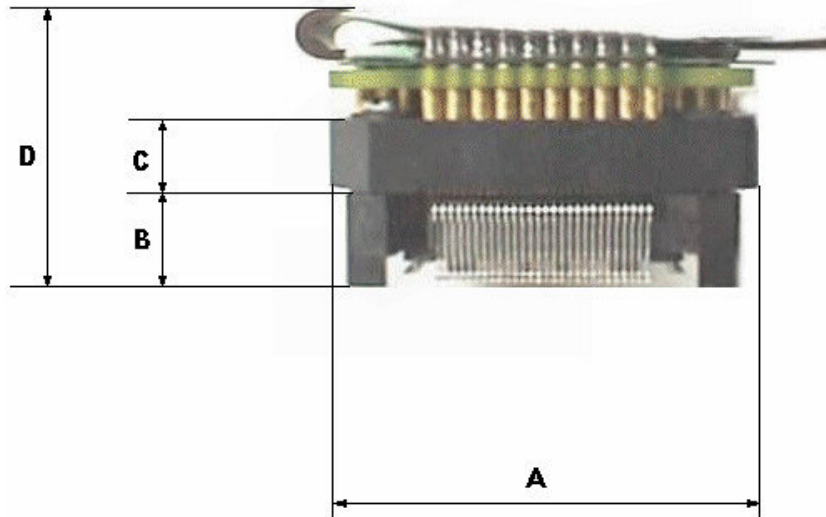
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Precaution must be taken after the POD is connected to the target. Adapter parts may break due to the user carelessness.

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► Dimensions

(Unit : mm)	A	B	C	D
<b>Flexible Adapter – QFP100</b>	28 x 28	5	6	21



## Fixed Adapter

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The IA100PODQFP08 adapter consists of two parts. In this document, they are named IA100YAM-SOLDER and IA100PODQFP08-FIXED to simplify the assembly instructions. Note that the IA100PODQFP08-FIXED is not the ordering code. However, IA100YAM-SOLDER part can be ordered as a spare part under its name.

First, the IA100YAM-SOLDER (part 2) is soldered to the target and then the POD is connected via the IA100PODQFP08-FIXED.

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A flexible adapter is 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.

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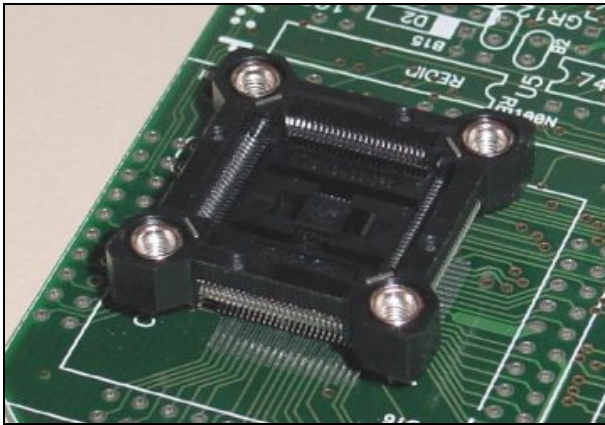
### ► Assembly

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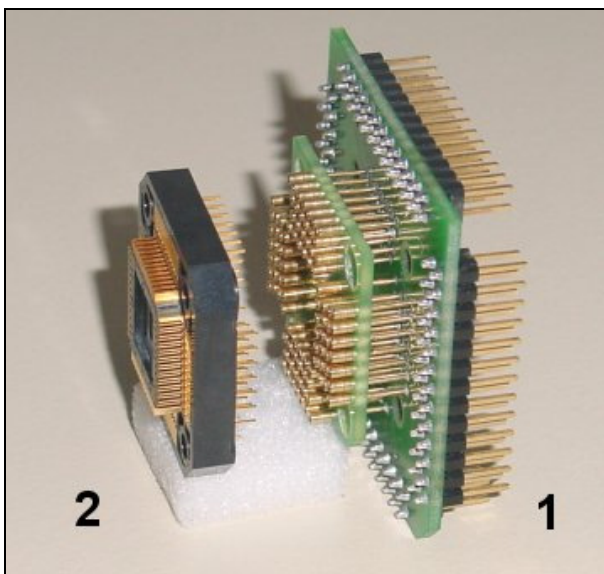
Pay attention to pin 1 while assembling the adapter and connecting the POD to the target. Improper use of the adapter or even incorrect adapter used with your particular POD can damage the emulation system and the target.

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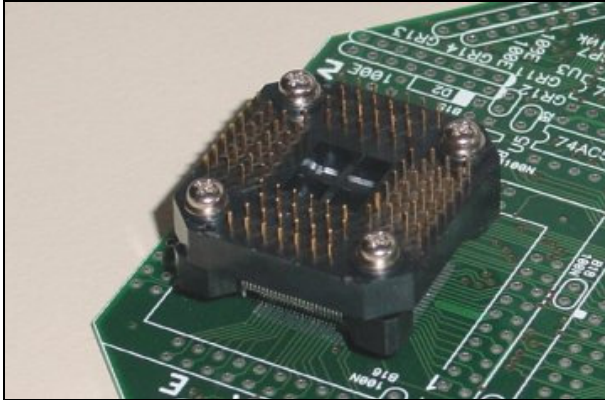
**Phase 1:** Solder the IA100YAM-SOLDER (part 2) to the target PCB.



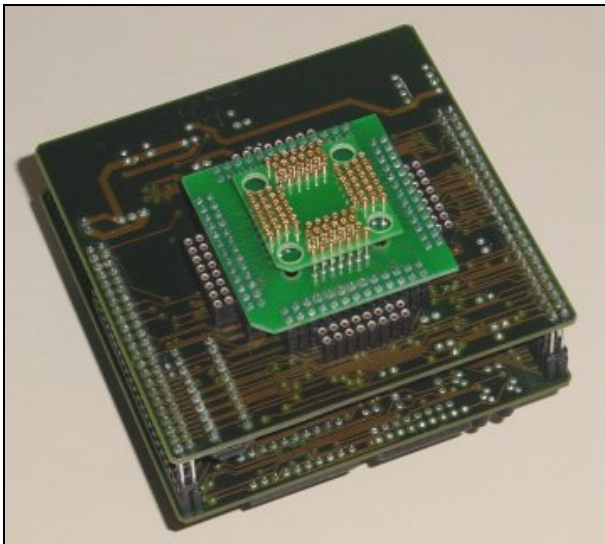
**Phase 2:** Disassemble the IA100PODQFP08-FIXED.



**Phase 3:** Place the IA100PODQFP08-FIXED (part 2) on top of the soldered IA100YAM-SOLDER (part 2) and screw them together with four long (12 mm) screws.

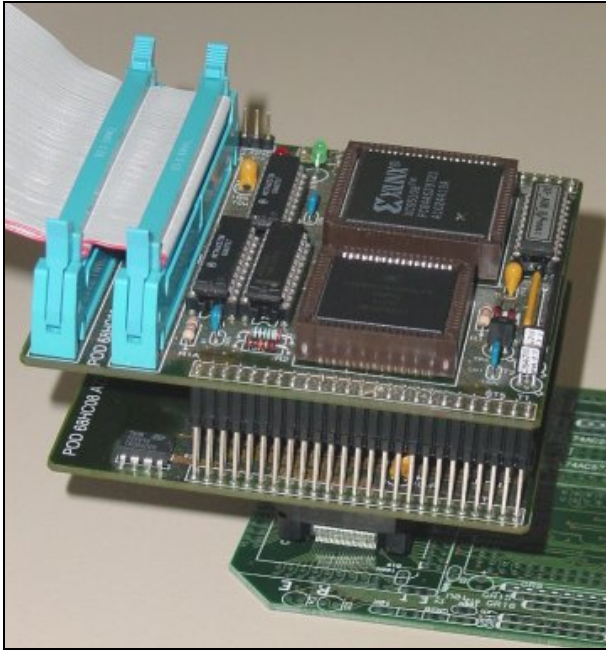


**Phase 4:** Connect the IA100PODQFP08-FIXED (POD side) to the POD.



**Phase 5:** Connect the POD to the target the IA100PODQFP08-FIXED.

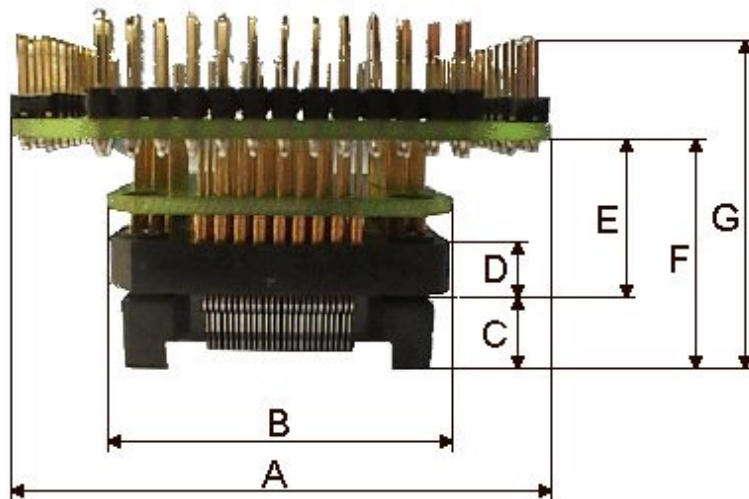




Precaution must be taken after the POD is connected to the target. Adapter parts may break due to the user carelessness.

### ► Dimensions

(Unit : mm)	A	B	C	D	E	F	G
<b>IA100PODQFP08</b>	46 x 46	29 x 29	8.5	6.0	14.5	23	33



## Connecting the CPU directly to the target

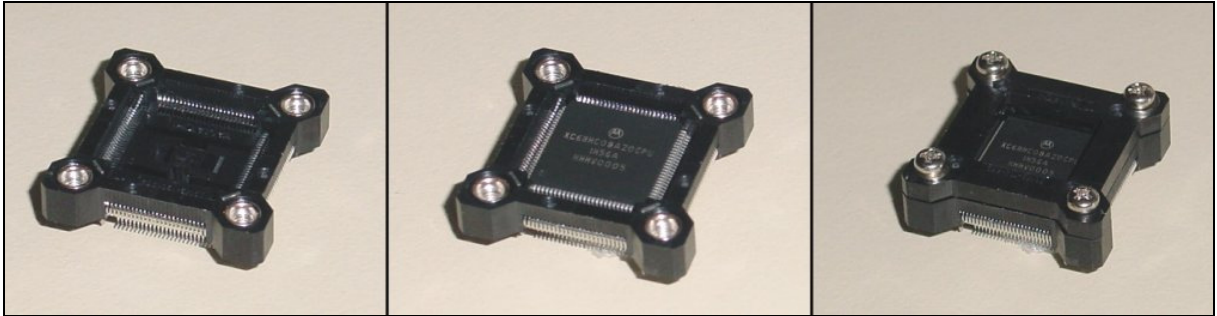
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Using the IA100YAM-SOLDER, the CPU can be connected to the target, which is very suitable for an ultimate test.

**Phase 1:** Solder part 2 of the IA100YAM-SOLDER to the target.

**Phase 2:** Insert the CPU.

**Phase 3:** Place over part 1 of the IA100YAM-SOLDER and screw it down with four short (6 mm) screws.



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