Adapters

QFP64 - TET

Target CPU package: QFP64
Body size: 10 mm x 10 mm
Pitch: 0.5 mm
POD target layout: T_QFP64

Can be used with:
- MPC560xP ActiveGT POD
- MPC560xB ActiveGT POD
- 78K0R/Fx3 ActiveGT POD
- R8C/3x Active PRO POD
- 78K0/Kx1 Active PRO POD
- 78K0/Kx2 Active PRO POD
- 78K0/Fx2 Active PRO POD
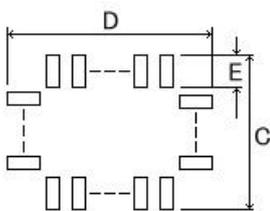- MC68EC000 Active POD

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.

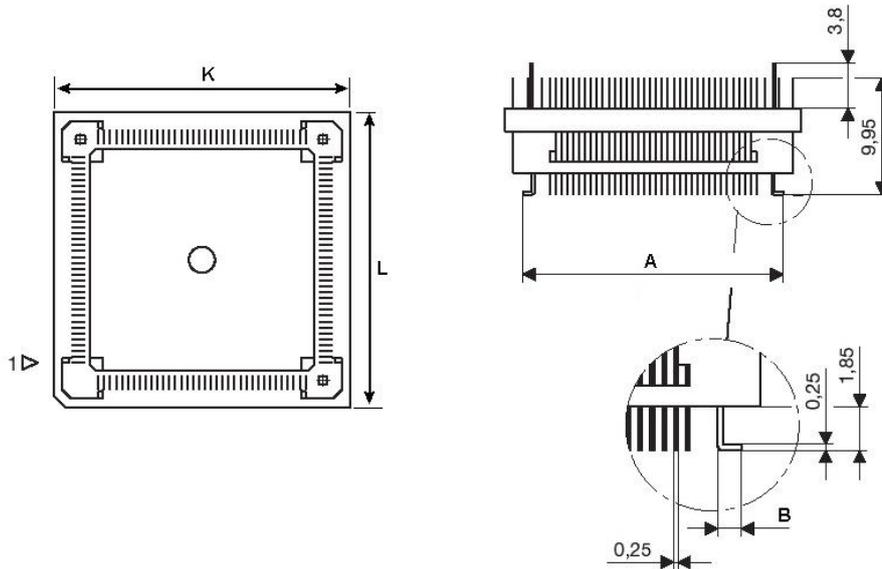## ➤ Available Adapter Parts (by ordering code):

- **IA64ATQ-SOLDER**
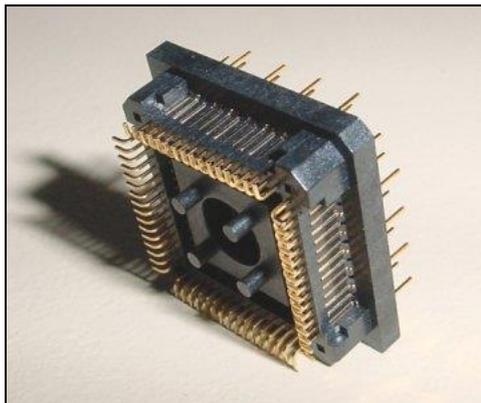
Solder part, which is being soldered to the target.

| (Unit: mm)						
A	B	C	D	E	K	L
12	1.505	13.0	13.0	2.3	14	14

Recommended (by TET) PCB footprint size

User must be familiar with the SMT (Surface Mount Technology) soldering in order to solder the IA64ATQ-SOLDER to the PCB instead of the original microcontroller. On request iSYSTEM can provide this service too.

- **IA64ATQ-WIRE**

The IA64ATQ-WIRE represents flexible connection between the POD and the target.
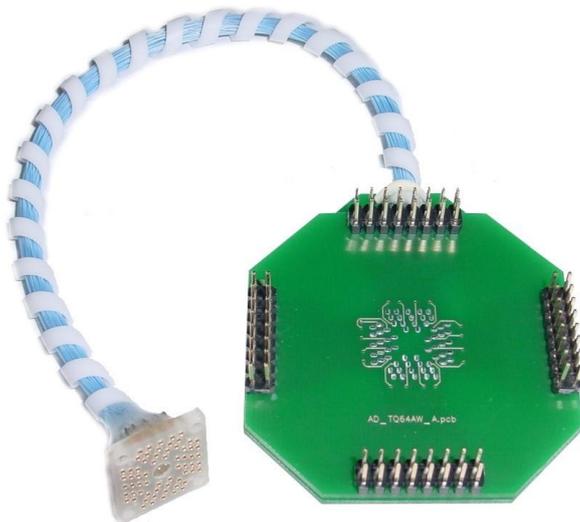
- **IA64ATQ-CPU**

When the target is already adapted for the emulator connection through the IA64ATQ-SOLDER (soldered to the target PCB), the IA64ATQ-CPU allows testing the target application with the original microcontroller instead of the emulator.

The IA64ATQ-CPU is populated with the socket, where the microcontroller can be inserted. It is recommended that the microcontroller is inserted first since the whole setup is mechanically sensitive to some extent and then the IA64ATQ-CPU connected to the target through the IA64ATQ-SOLDER.

Note: Top part of the IA64ATQ-CPU cannot be used in conjunction with the IA64ATQ-WIRE.

Flexible Adapter

The IA64ATQ-WIRE and the IA64ATQ-SOLDER are essential parts required to adapt the POD to the target QFP64 package. First, the IA64ATQ-SOLDER is soldered to the target and then the POD is connected via the IA64ATQ-WIRE.

➤ 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.

1. First, solder the IA64ATQ-SOLDER to the target PCB.
2. Next, connect the IA64ATQ-WIRE to the POD.
3. Finally, connect the POD via the IA64ATQ-WIRE to the target.

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

Connecting the CPU directly to the target

The CPU can be connected directly to the target using the IA64ATQ-SOLDER in combination with the IA64ATQ-CPU. This solution is very suitable for an ultimate test.

Step 1: Solder the IA64ATQ-SOLDER to the target PCB.
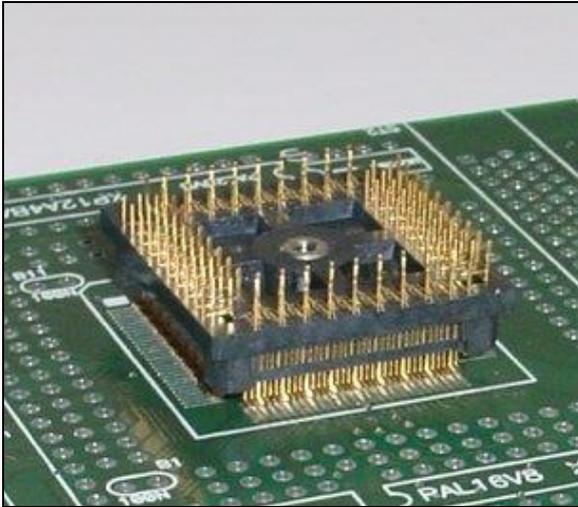
Step 2: Insert the microcontroller into the IA64ATQ-CPU, which then connects to the IA64ATQ-SOLDER.