QFP144 Yamaichi

Target CPU package: QFP144
Body size: 20 mm x 20 mm
Pitch: 0.5 mm
POD target layout: T_QFP144

Can be used with:

- MPC5604P Active GT POD
- MPC5604B Active GT POD
- MPC564xL Active GT POD
- SPC56AP Active GT POD
- MC9S12XDP512 Active PRO/GT POD
- MC9S12XFR128 Active PRO/GT POD
- MC9S12XEP100 Active PRO/GT POD
- MC9S12XF512 Active PRO/GT POD
- MC9S12XHZ512 Active PRO/GT POD
- MC9S12H256 Active POD
- NEC V850ES/Fx3 Active PRO/GT POD
- NEC V850ES/Sx2 Active PRO POD
- NEC V850ES/Fx2 Active PRO POD
- TMS470Pxx Standard Active PRO POD
- TMS470R1VB8x SE4 Active PRO POD
- TMS470R1VB8 Standard Active PRO POD
- TMS470R1VB8 I/O Extended Active PRO POD

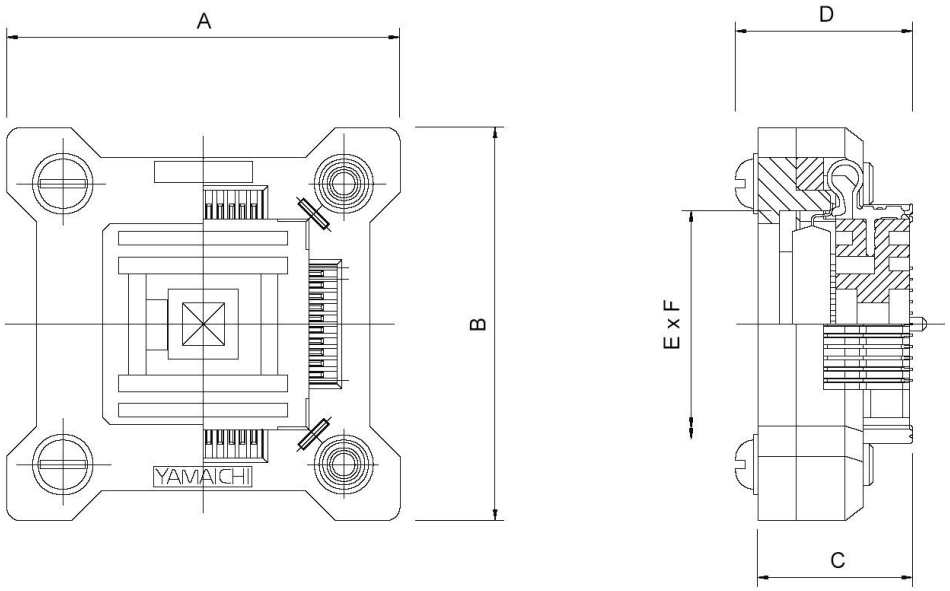
This adapter is used when the Active PRO/GT POD emulates the target CPU in the QFP144 package (size 20mm x 20 mm).

Described adapter parts can be used only with listed PODs. Disregarding this warning may result in hardware failure of the emulation system and the target.

➤ Required Adapter Parts (by ordering code):

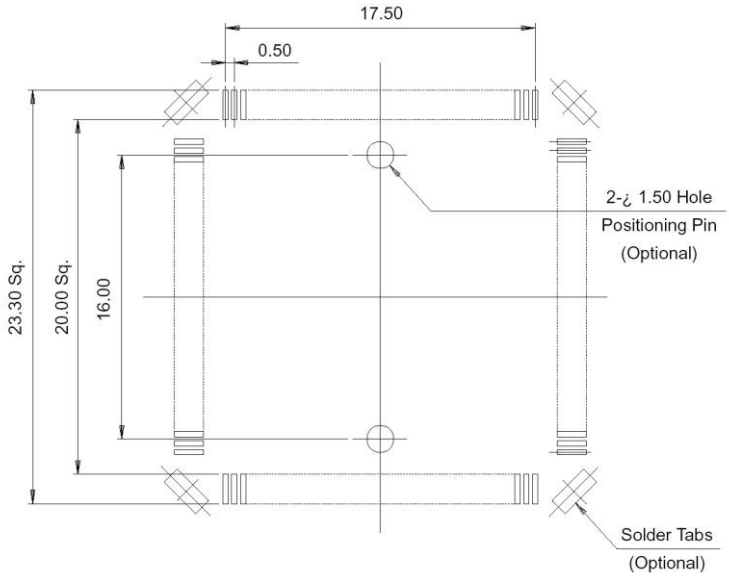
- **IA144YAM-SOLDER**

Solder part, which is soldered down to the target.



A	B	C	D	E x F
34.20	34.20	12.30	12.60	21.14 x 21.14

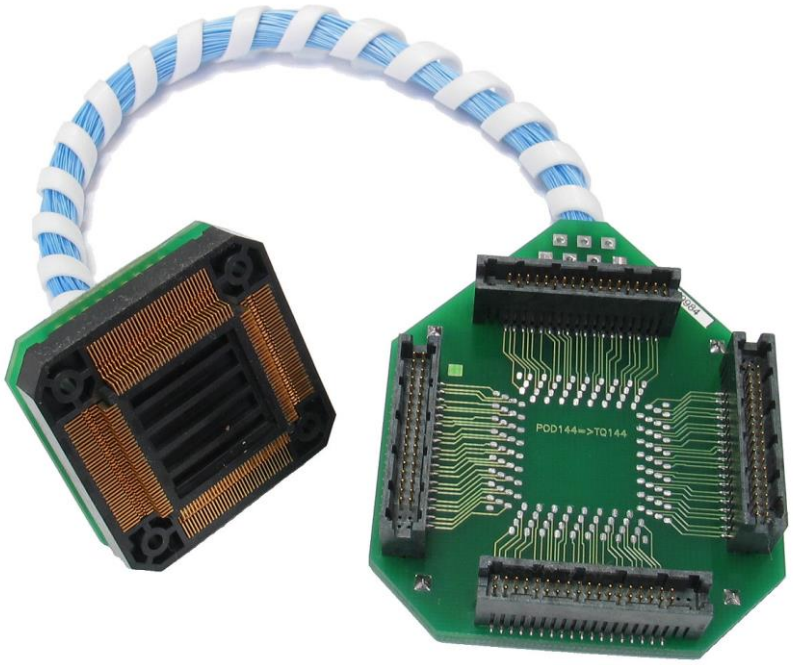
Socket Dimensions (Units: mm)



PCB Layout (Units: mm)

- **IA144P144YAM-W**

Don’t use IA144P144YAM-W with MC9S12XDP512 Active PRO POD when emulating expanded mode. Use IA144TQEX-FIXED (QFP144 TET adapter solution) instead. The CPU has very tight timings and long adapter lines could result in incorrect or unreliable emulation. No problems are expected with IA144P144TQ-W when emulating single chip mode.



The IA144P144YAM-W represents flexible connection between the POD and the target.

➤ 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, connect the IA144P144YAM-W to the POD.
2. Next, solder down the IA144YAM-SOLDER (part 2 only) to the target PCB.
3. Finally, connect the POD to the soldered IA144YAM-SOLDER via the IA144P144YAM-W.

Connecting the CPU directly to the target

Using the IA144YAM-SOLDER, the CPU can be connected directly to the target, which is very suitable for an ultimate test.

Phase 1: Solder part 2 of the IA144YAM-SOLDER to the target.
Phase 2: Insert the CPU.
Phase 3: Place over part 1 of the IA144YAM-SOLDER and screw it down with four short (8 mm) screws.

IA144YAM-SOLDER used to insert the CPU directly to the target