

WILDCAT Single Board Computer

Installing Your Processor and Memory

If your Single Board Computer is supplied with a processor and/or memory they are packed separately, to avoid any possible damage during transportation. Before proceeding further please read the whole of this sheet.

Electro-Static Discharge

Your Single Board Computer is susceptible to damage by electrostatic discharges. In order to avoid damage, you should work at an anti-static bench and observe normal anti-static precautions. Wear an anti-static wrist strap connected to an earth point *before* opening any packaging. Keep all items in their anti-static packing until required.

If your computer board was supplied with processor and/or memory, you will also have a disposable wrist strap. Remove the protective paper from the end with the visible copper strip, and stick this firmly to any available earthed metalwork or chassis. Remove the protective paper from the other end, hold the free end against the bare wrist with the adhesive uppermost and wrap the tape firmly around the wrist and stick it down. The strap can be used only a limited number of times.

Where a wrist strap is not available, discharge any static charge you may have built-up by touching an earth point. Avoid any further movement that could build up another static charge. Touch an earth point from time to time to avoid further build-up, and remove the items from their anti-static bags only when required.

Battery

Your Single Board Computer is fitted with an on-board Lithium battery. Take care not to short circuit the battery by placing the board on conducting surfaces. Shorting the battery will reduce its life, and may be hazardous.

Fitting the Processor and Fan

Place the Wildcat on the bench with the gold fingers towards you. Remove any memory fitted to the board. Pull the handle on the processor socket slightly to the right and lift it to the vertical. Place the processor into the socket, carefully matching the chamfered or identified corner of the processor to the socket (top right). Lower the handle to lock the processor into place.

Apply a thin smear of thermal grease to the top of the processor chip. Place the fan / heatsink assembly onto the processor and hook the retainer over the nearest lug on the socket. Holding it place, press down on the other end of the clip to engage the lug on the furthest edge of the socket. Take care whilst pressing down. Considerable pressure is required, and a slip could damage the board. Connect the fan to the adjacent plug labelled "FAN 1" on the board.

Under no circumstances should the board be powered without fitting a fan-heatsink assembly.

Fitting the Memory

Do not attempt to fit the memory until the processor is fitted. Insert the first DIMM (memory module) into the DIMM socket nearest the processor, observing the polarisation slots in the DIMM. Press it firmly into place ensuring that the retaining clips lock into position. If a second DIMM is required, fit it to the remaining socket using the same technique.

Fitting the DiskOnChip Module

Note that the DiskOnChip module may be permanently damaged if it is installed incorrectly. Align pin 1 of the DiskOnChip module with pin 1 of the on-board socket. Push the module into the socket carefully until it is fully seated. Check that it is secure and that there are no bent pins. Refer to the User Manual on the CD-ROM for the software configuration.

Installing the Board

The board is now ready to be installed in a backplane. However, the board is now very heavy and could be damaged by holding it in such a way as to allow it to flex the circuit board. Handle it carefully.

Transportation

If the processor board is to be transported, it is strongly recommended that the fan-heatsink and memory are removed from the board and packed separately. (Removal is a reversal of the above). It is not necessary to remove the actual processor. This should avoid damage due to the weight of the heatsink and the vulnerability of the DIMMs. The units should be enclosed in anti-static bags.

Avoid the black conductive plastic type of anti-static bags for the processor - they will discharge the on-board battery. Use the clear metallised type as supplied.