

Using the AXE111 Memory Expansion Board

The optional memory expansion board (part AXE111) allows 7 additional EEPROM chips (e.g. 24LC256) to be connected to the AXE110 Datalogger to increase its memory capacity from 1 EEPROM to 8 EEPROMs.

Kit Contents/ Assembly:

- PCB PCB
- IC1-7 8 pin IC sockets (x7)
- C1 100nF capacitor
- R1 10k resistor
- CT1 5 pin r/a header
- CT2 5 pin r/a socket

All parts should be soldered in position as shown in the diagram above. Note that the kit does not include EEPROM chips which must be purchased separately (e.g. 24LC256, part MIC050).

Slave Address

The PCB is arranged to give each memory IC a unique slave address as follows. (Note that the IC with address %10100000 is fitted on the AXE110 datalogger board).

- IC1 %10100010
- IC2 %10100100
- IC3 %10100110
- IC4 %10101000
- IC5 %10101010
- IC6 %10101100
- IC7 %10101110

Write Enable

The Write Enable pin of each EEPROM is tied low by the 10k resistor, and so by default is permanently enabled. However, if desired, this can be controlled by output6 of the PICAXE-18X microcontroller on the datalogger module.

To use this option a wire link must be soldered between the two pads marked LK1 on the solder side of the AXE110 Datalogger. This connects output6 to the connector. Note that this option cannot be used if output6 is already being used to drive a serial LCD module.

