

MPLANE

Fitting Instructions

MPLANE is to allow QL motherboard or Aurora along with expansion to be fitted into cases - eg mini tower case. Use only AT style cases – ATX power supplies are not suitable.

Expansions should be set to 5V. Qubide comes with instructions. All other expansions need the two outer pins of the 7805 regulator connected. Put a sticker on saying “Do not connect to a black box QL - 5V only!”

A ROM slot is provided. This supports both QL and Aurora type ROMs (Aurora EXIO signal will have to be connected via flying lead from Aurora)

All power is derived from the 4 way disk drive type connector on MPLANE.

It comes in three forms. In the first two cases, the boards are fitted to the side plate in mini tower cases or similar, the MPLANE towards the back. It can be mounted on ‘Son of Braquet’ - a base plate from Qbranch (01273-386030).

1) **Tower case/QL motherboard** **Remove the 68008 processor if used with Gold Card/Super Gold Card.** The main expansion (Gold Card/super Gold Card etc) should be fitted on the bottom slot beside the QL motherboard. The ROM connector and two CTL ports need to be cut off, and insulating tape fitted over the pads. If a CTL port is needed, the wires from an external connector can be soldered to the bottom of the QL motherboard. Supergold card can be fixed by widening the motherboard rectangular slot by CTL2 slightly and using the existing supergoldcard heatsink screw. Gold Card is fixed to the case/Son of Braquet through the heatsink holes. Heatsinks on expansions are not needed as the boards run off 5V direct. Remove the QL board heatsink and regulator. Connect the two pins together with a solid wire link - do the same for the expansion board regulators. If you know what you are doing, it is far better instead to connect the 9V rail to the 5V rail near the expansion connector. Fit Qubide above expansion (GC/SGC etc). +5v/+12V are obtained from the power source. -12V nominal is generated on MPLANE. The ROM connector is fitted facing internally. The two pin connector is for RESET.

2) **Tower case/Aurora** Again the main expansion should be fitted on the bottom slot, beside Aurora. It can be fitted to Son of Braquet or fitted directly to the case with mounting spacers. See comments under (1) for power requirements. The ROM connector is fitted facing outwards, and with a suitable plate over the IBM card cutout (consult Qbranch again!). ROMs (including RomDisq) can then be removed easily (after powering down!). The two pin connector is for RESET.

3) **MinisQL notebook** This is a notebook style case for Aurora/qubide etc - consult Qbranch for details. It needs only +5V supply.

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