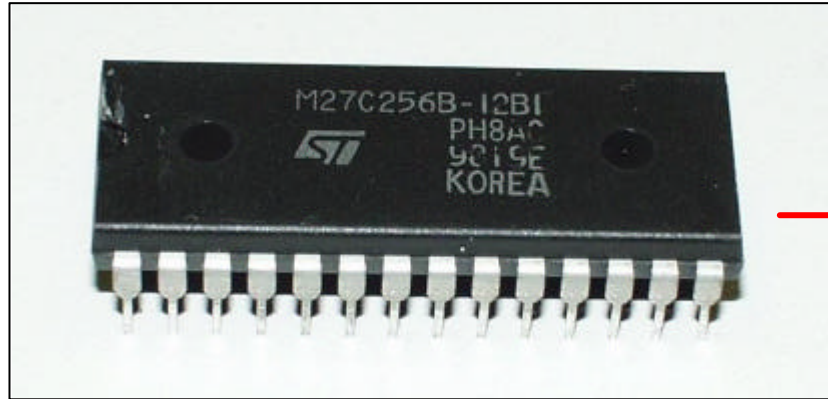


FIRMWARE UPDATE VERSION 1.3 UND WINDOWS® editor software 1.0 EDITOR SOFTWARE FOR ULTRA-DYNE PRO DSP9024

The new update for the DSP9024 consists of two separate components:

The new firmware version (operating system) 1.3 and the Windows editor software 1.0.
The operating system is programmed into this component (EPROM) :

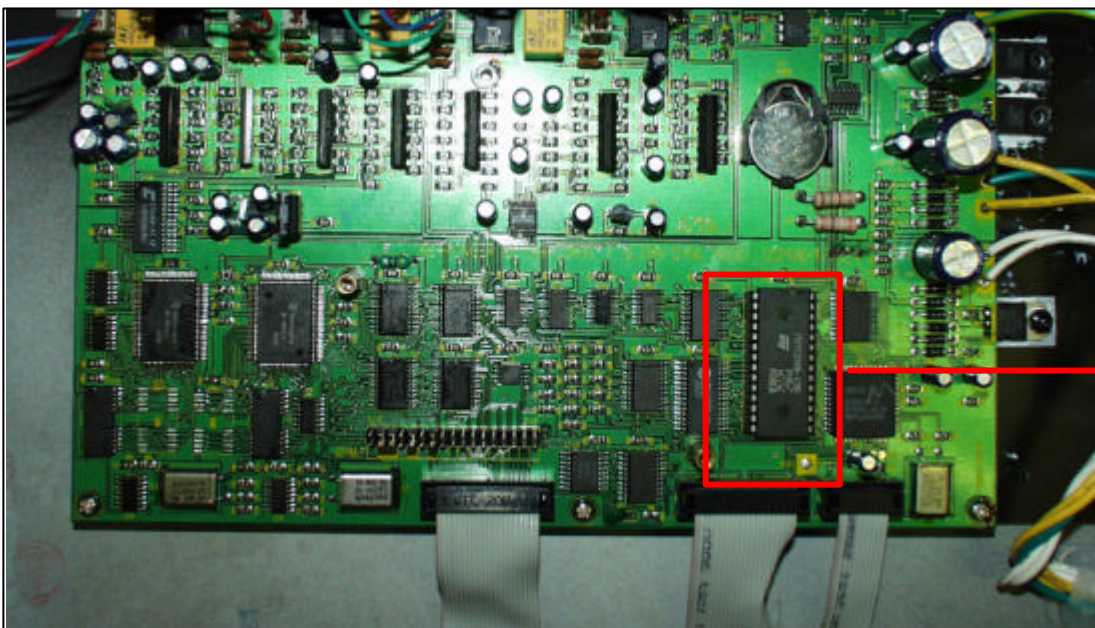


Technical Data:
256k EPROM with max. 150ns rise time (Type 27C256, DIL28 package)

In order to program the new operating software into this EPROM, you will need a special piece of equipment – a PROMMER (EPROM programming device)

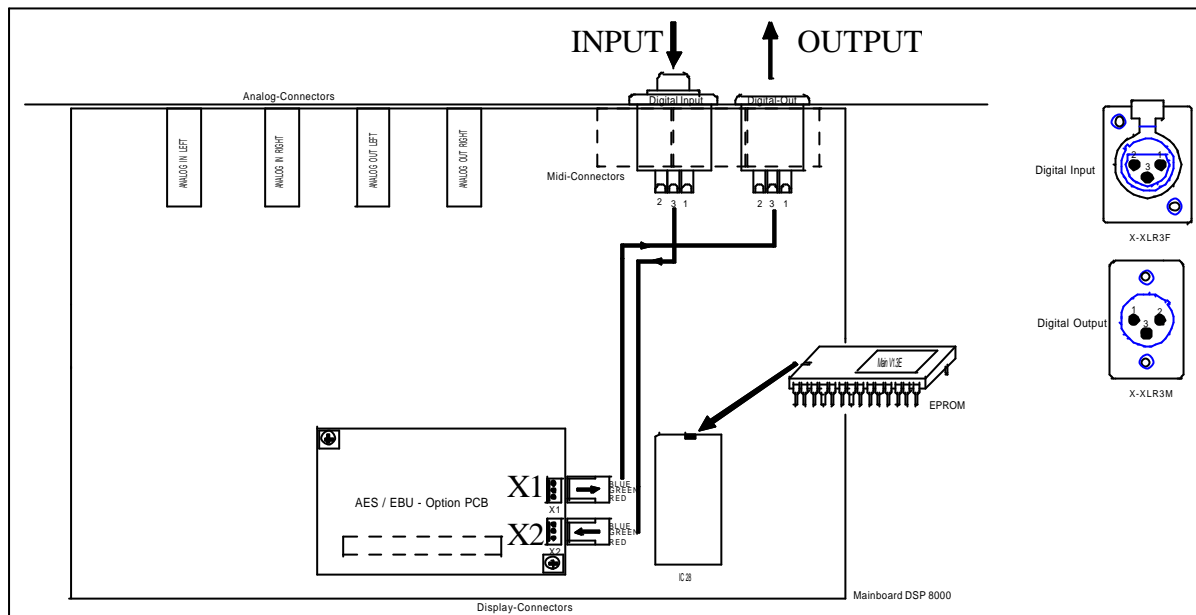
These can often be found in repair workshops, service centres and from suppliers of electrical components.

The EPROM is located in a socket on the main pcb inside the DSP9024, and is relatively simple to remove and replace.



Before starting work: Remove the Mains Plug !

Remove the four Philips head screws from the rack ears and the screws from the cover (two on the top, two on the back, one on left and right side each).



Lift the cover of the ULTRA-DYNE PRO.

You should loosen the original EPROM with a screwdriver or a pair of pliers, before removing it. Be very careful not to damage to the board.

Be sure of the correct alignment of the new EPROM before inserting it : there is a small notch on top of the IC which corresponds to the yellow rectangle on the PCB. Please check that the pins on the EPROM are evenly spaced and have the same separation as the holes in the socket. You can adjust the width between the two rows of pins by lightly pressing one row against a flat surface. If the pins are adjusted correctly, they will fit into the slots smoothly and can be secured with little pressure.