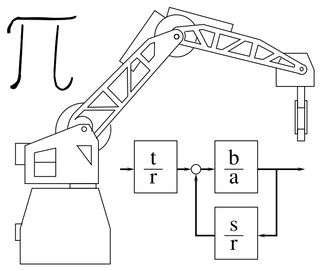
Controllers for Standard and Parallel Robots



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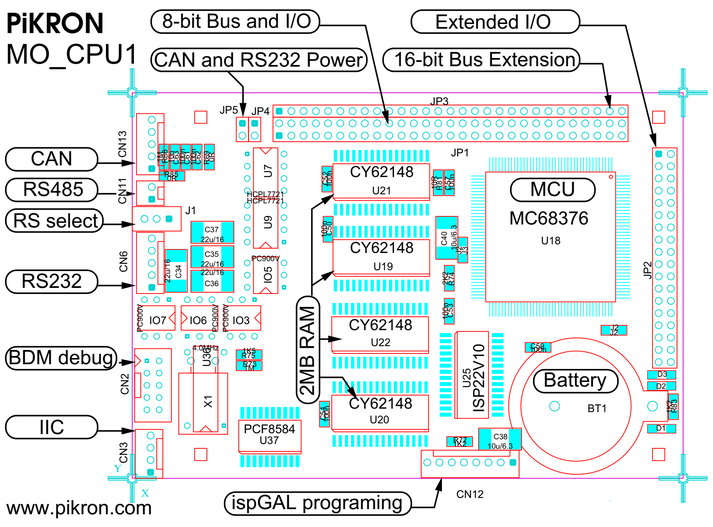
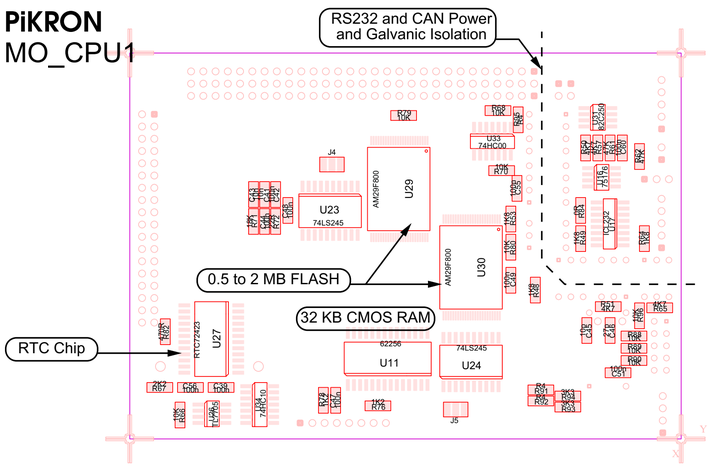
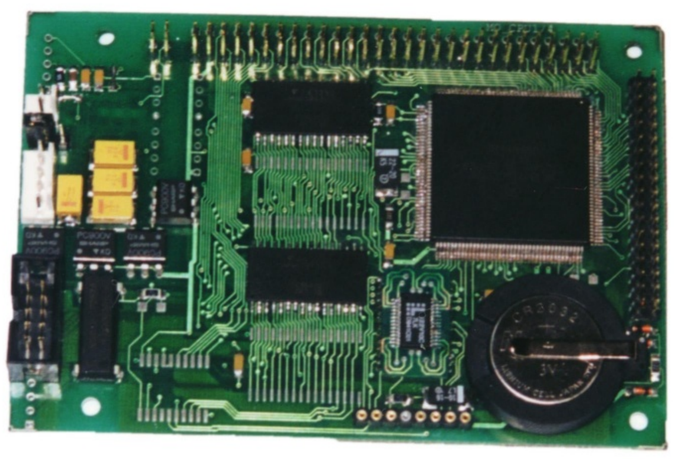
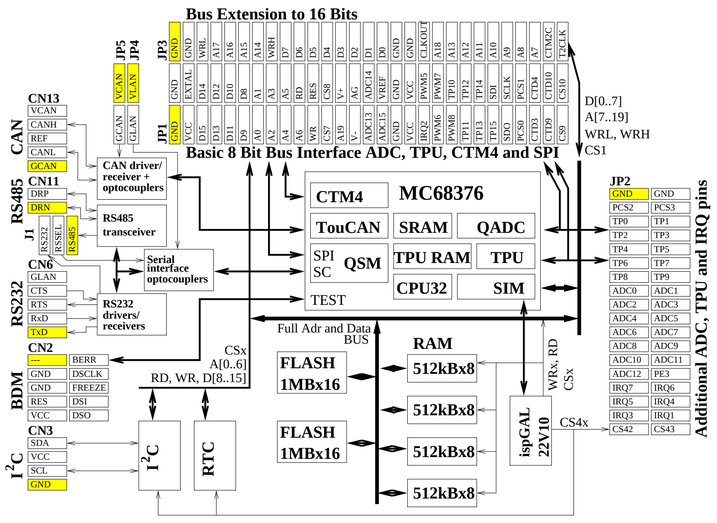
Eight axes motion controller

This Motorola 68376 microcontroller based system consists of three designed boards. The incremental encoders interface board contitions TTL or RS-422 input signals for eight 24-bit position counters. The power stage board contains power bridges for eight DC motors and necessary power sources for galvanically isolated controller core and RS-232/RS-485 and CAN comunications. The designed microcontroller board (**MO_CPU1**) is well suited for described system, but can be used in other control applications as are laboratory instruments, automotive control units and autonomous robotics systems.



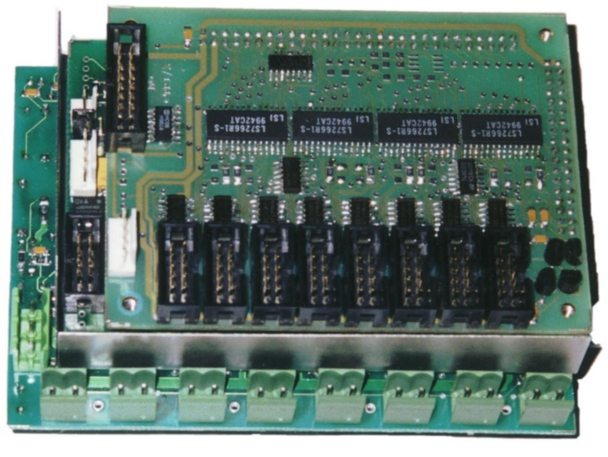






The pictures above shows drawings and prototype of the **MO_CPU1** board. The boxed motion controller system and stacked all three boards are in next pictures.

Dimensions of complete boxed system are 240 mm x 120 mm x 300 mm.



Dimensions of stacked boards are 105 mm x 80 mm x 60 mm.

Controlled Mechanics

More kinds of positioners for measurement and computer vision applications.

Small robots (**BlueBot**) used at department of Cybernetics for education of robotics.

The BOSCH industrial robot with SCARA kinematics.