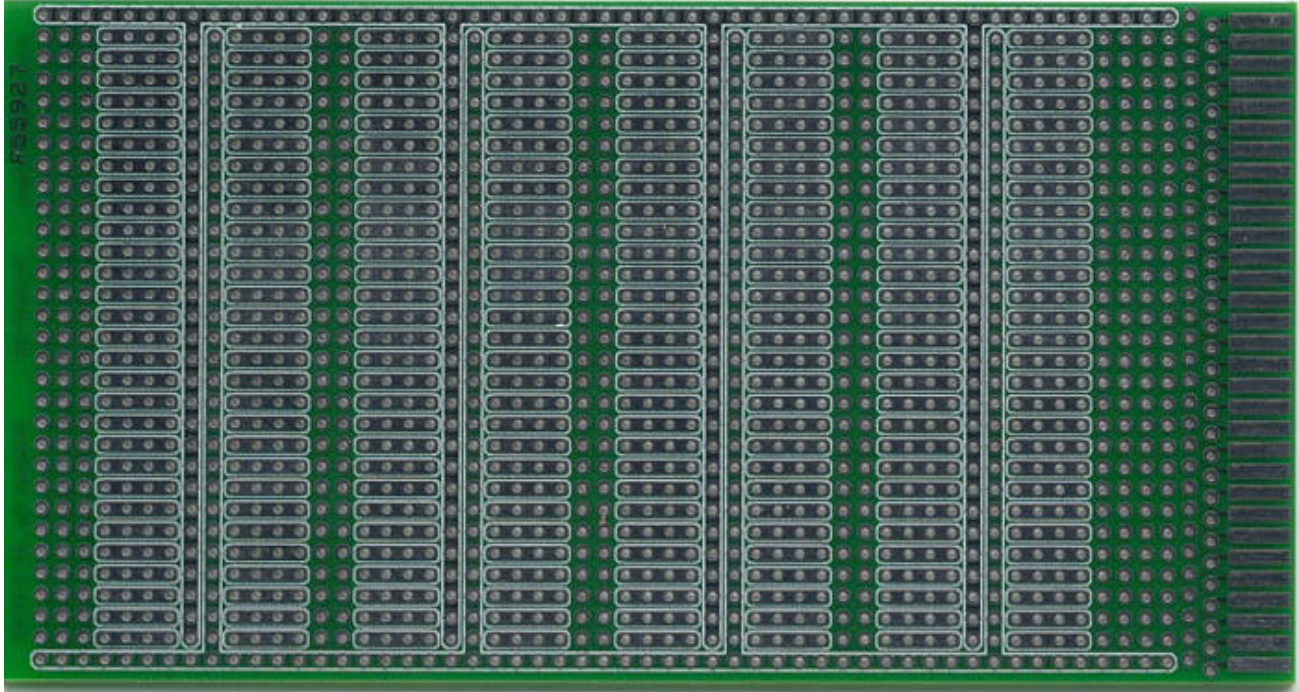


# ProtoXP Prototype Expander Board

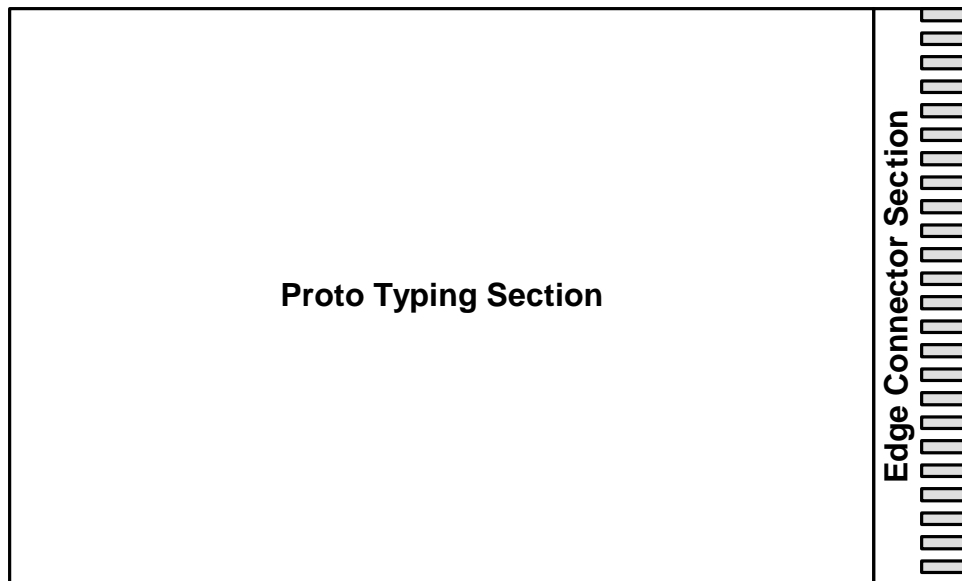


# Prototype Expander Board

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Avayan Electronics Development/Project Boards are powerful tools. Thanks to its considerable prototyping area, the boards are capable and meant to allow a very good number of external components to be interconnected to the microcontrollers at hand. In some occasions, the prototyping area may not be enough and that is why the Prototype Expander (ProtoXP) has been created. With this board the designer will obtain more than a 1000 extra pads to interface more complicated projects such as those involving memory, parallel communication, etc.

The board is divided in two: The conventional edge connector that allows interfacing to other boards through a back plane and an extensive prototyping area that will hold basically any circuit being controlled by one or more microcontrollers.

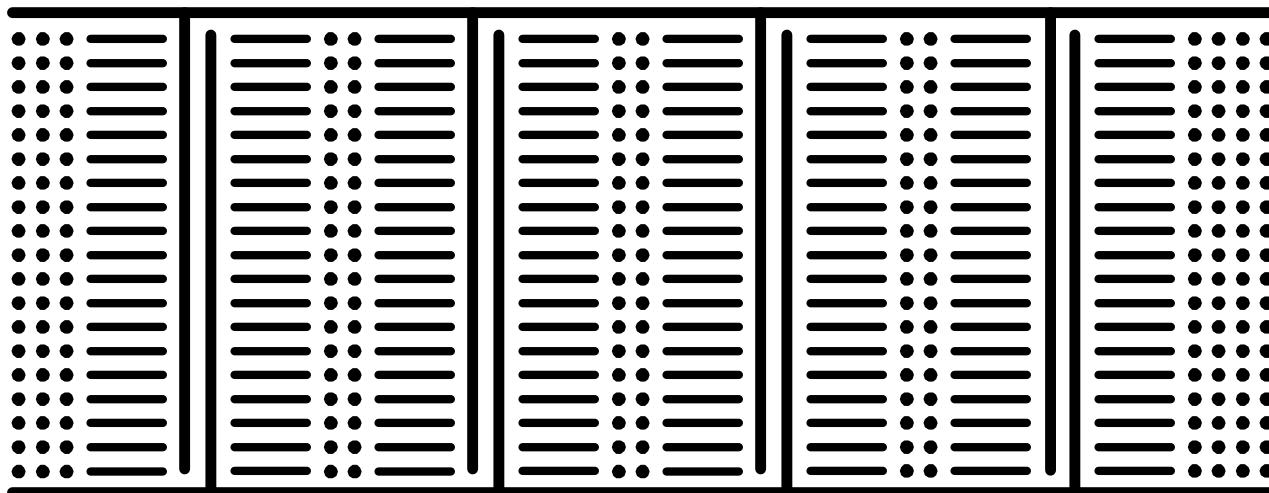


# Prototype Expander Board

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## Prototyping Section:

Some space is allocated to add the extra circuitry that will make up the target system, in the form of a pad grid. There are close to a 1000 pads carefully arranged in the mentioned area. A power bus runs through the prototype grid allowing easy access to VCC and GND lines. The grid was designed to allow components such as through hole DIP IC's, resistors, capacitors, transistors, etc.



*Prototype Diagram: Not exact amount of pads shown*

## Edge Connector Section:

The edge connector on the bottom edge of the board is the gate for signals to be shared from and into other boards. Up to 62 different signal pads are accessible by means of standard 62 pin, 100 mil from pin to pin edge connector. Avayan Electronics' MBPB-3 is a good example of a 3 edge connector mother board that will supply power, communication and control signals between three edge connector based boards.

Each tab on the edge connector, is connected to a pad. The user must connect input and output signals from this set of pads into any other pad located at the prototype section.

These pads connect to the bottom side edge pads

These pads connect to the top side edge pads

