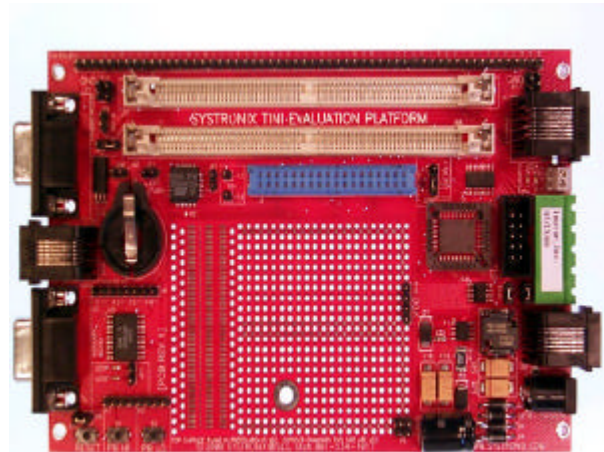


# MB-STEP

- ❑ 2 x RS232 D
- ❑ 10/100 BaseT Ethernet (RJ45)
- ❑ 1-Wire (RJ11 connector)
- ❑ 1-Wire (iButton clip)
- ❑ 1-Wire temperature sensor DS1820
- ❑ CAN (5-way screw terminal )
- ❑ 4 Analog inputs to 1-Wire ADC
- ❑ Prototyping area
- ❑ Size 100 x 160 mm



## Introduction

The **MB-STEP** is a SNAP motherboard in a 100x160 mm Euroboard standard size. It is equipped with connectors for 10/100 BaseT Ethernet, RS232 serial x 2, CAN, 1-Wire and analog input. **MB-STEP** also offers enhanced possibilities with a prototype area and an additional expansion SIMM socket.

## I/OExpansion

The industry standard 8-bit SBX "mezzanine bus" interface is an easy way to plug on additional memory mapped I/O from dozens of vendors, or create your own with our SBX prototyping board. The auxiliary SIMM72 socket is intended for I/O devices.

## Features

PARAMETER	MB-STEP
<b>Simm72 socket</b>	One vertical Simm72 socket for SNAP
<b>Serial I/O</b>	Two RS232 serial I/O, serial(0) available for your use (IrDA shares this). Serial(1) is dedicated to the 1-wire network.
<b>CAN network</b>	1 x CAN 2.0B channel, with twisted pair cable driver and optional DeviceNet screw terminals.
<b>LEDs and Switches</b>	Two pushbuttons (low and high levels) and two LEDs for experimentation.
<b>Expansion</b>	8-bit SBX connector with up to 16 decoded addresses and two interrupts. Dallas 1-wire/iButton port for low-cost remote sensing & control. I <sup>2</sup> C is supported by Java. Auxiliary SIMM72 connector supports future I/O modules.
<b>Temperature</b>	Commercial temperature 0 to 70 °C.
<b>Power supply</b>	Unregulated 8V-24V DC or AC input from a 5.5x2.5 mm jack or the CAN net. Efficient switching regulator is reverse-polarity, short-circuit and over-temperature protected. 5V at 500 mA available for user.
<b>Form factor</b>	100x160 mm