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Programming Modtronix PIC based boards

Introduction

All Modtronix PIC based boards can be programmed in circuit. They all have one of two types of programming connectors, ICPC1 or ICPC2 (**I**n **C**ircuit **P**rogramming **C**onnecto Figure 1 and 2. Both of these connectors have the same pinouts. The ICPC1 type is smaller, and used on boards that don't have enough space for the larger ICPC2 type conn type connector is the preferred type, seeing that it has a tab that ensures it is always plugged in the correct way. When connecting to the ICPC1 type connector, care must b connector correctly. Not doing this can damage the board and programmer!

All our programming adaptors for PIC programmers have connectors for both ICPC1 and ICPC2 connector types. They all have a standard two part programming cable, consi and an IDC Cable - see Figure 3. To program boards with a ICPC1 type programming connector, plug the connector on the small PCB into the ICPC1 connector of the target b To program boards with a ICPC2 type programming connector, remove the small PCB and plug the cable directly into the ICPC2 connector - see Figure 5.

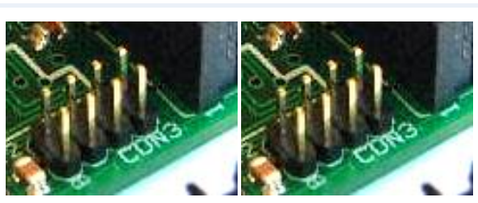

Figure 1 - ICPC1 Programming connector

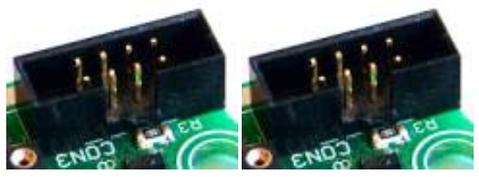

Figure 2 - ICPC2 Programming connector

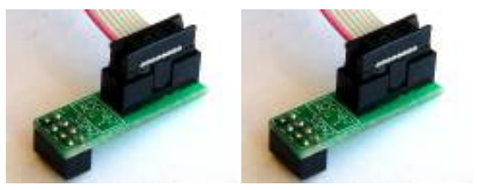

Figure 3 - Programming cable

Figure 4 - ICPC1 connected

Figure 5 - I

Click on image to enlarge!

Programmers

The sections below show the different methods for programming Modtronix PIC based SBC boards. **We recommend** using Microchip programmers/debuggers (ICD 2/3 and programmer you choose depends on your budget, and what features are required. For most purposes the PICKit 2 or ICD 2 will be sufficient. To help decide what programme page on Microchip's web site. All (except the PICKit 2) these programmers/debuggers integrate with the MPLAB IDE and can also be used for debugging too. These programm designed and are firmware upgradeable. Microchip regularly releases new firmware to support new chips that become available.

ICD 2 and 3 - In Circuit Programmer And Debugger

One of the best ways to program Modtronix PIC based boards is by using the Microchip ICD 2 or 3 programmer and debugger together with the PGM06 programming adaptor. The PGM06 programming adaptor plugs onto the ICD 2 and provides the connectors required for programming and debugging all Modtronix PIC based boards. Figure 6 shows the ICD 2 used together with a PGM06 programming adaptor to program a target PIC based SBC board.

The ICD 2 is a very robust unit, and has extensive protection and monitoring circuitry. Even when connected up wrong to the target board, it will sense the wrong connection, and not try to program the board. Thus not damaging the board or itself! The same is **NOT** true for many other programmers!

Figure 6 connecte

Click on

PICkit 2 and 3 programmer with PGM2KIT Adaptor

The **cheapest** way to program Modtronix PIC based boards is by using the PICkit 2 (or 3) Programmer together with the PGM2KIT programming adaptor. The PGM2KIT Programming Adapter plugs into the ICSP socket of the PICkit 2 PIC programmer. It provides the connectors required for programming all Modtronix PIC based boards. Figure 7 shows the PGM2KIT used together with a PICkit 2 programmer to program a target PIC based SBC board.

The PICkit 2 is a very robust unit, and has extensive protection and monitoring circuitry. Even when connected up wrong to the target board, it will sense the wrong connection, and not try to program the board. Thus not damaging the board or itself! The same is **NOT** true for many other programmers!

Figure 7 - with PGM adaptor us

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ZIF Programming Adaptor - In Circuit Programming

The PGM40ZIF ZIF Socket Programming Adapter plugs into the ZIF socket of a standard PIC programmer, in place of the PIC chip. It provides the connectors required for programming all Modtronix PIC based boards. Figure 9 shows the PGM40ZIF used together with a PIC programmer to program a target PIC based SBC board. Example of PIC programmers that can be used with the PGM40ZIF are the PGM149 and PGM150 programmers from kitsrus.

Figure 9 - PGM40ZI

Click on