Using MINI-MAX/ARM

Single Board Computers

as plug-in modules

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Figure 1 shows a typical application where a MINI-MAX/ARM board is installed as a module on a user's carrier board.





BiPOM provides a CAD drawing of MINI-MAX/ARM board at

http://www.bipom.com/documents/boards/mmarm/mmarm_drawing.pdf

Keep in mind that when installing the board in reverse, the pins will be reversed.

MINI-MAX/ARM plugs on to 0.1" pitch female headers. Depending on the functionality and the desired connections, one or more of the connectors can be installed. As a minimum, the expansion connector should be installed to provide 5 Volt power to MINI-MAX/ARM.

The following female headers from SAMTEC can be used to mate with MINI-MAX/ARM connectors:

Expansion Connector: SAMTEC ESQ-110-33-T-D LCD Connector: SAMTEC ESQ-107-33-T-D Keypad Connector: SAMTEC ESQ-110-33-T-S Serial Port (UART0) Connector: SAMTEC ESQ-105-33-T-D Serial Port (UART1) Connector: SAMTEC ESQ-103-33-T-D

It is typically not necessary to use the JTAG connector but if desired, this can be mated with SAMTEC ESQ-110-33-T-D.



Figure 2 shows a typically carrier board that hosts a MINI-MAX/ARM as a module:

BiPOM Electronics, Inc.

Figure 2

HMARH-E/C/S,

MMPIC,

MINI-MAX/ARM is plugged to this area

MM51C2/8

Figure 3 shows another carrier board example with female connectors for installing MINI-MAX/ARM as a plugin module:



Figure 3