



# QuickInstall Instructions

## IRDA Option

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Use these instructions to install your new IRDA Option Module on your SBC-MaX or SBC-MaX2 computer and to set it up for use. The IrDA function allows communication between the computer and other IrDA capable devices using Infrared light without the need for a physical connection.

From the application software, the IrDA port appears as a serial or parallel port (i.e. COM or LPT port.) Any application that can use a serial or parallel port for communication with a peripheral device, may be able to use IrDA to communicate to that device as well. Refer to your Technical Manual for further design, application and specification information.

## Unpacking

Your product was packed at the factory for maximum protection during shipment. If any shipping damage is noted upon receipt, report it to your shipper. When unpacking, the following items should be included:

- IRDA Option Board
- Cable to motherboard
- QuickInstall Instructions (this document)

## Pre-Installation Checklist

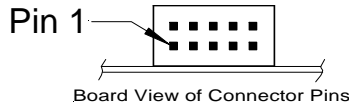
In addition the following items will be needed:

- All hardware components necessary to install the Option Card in your system
- Make sure Option Card can be positioned to view the remote device in its final position.
- Power supply with proper voltage output and sufficient available power to operate the computer, as configured. Power requirement for only this option card is:

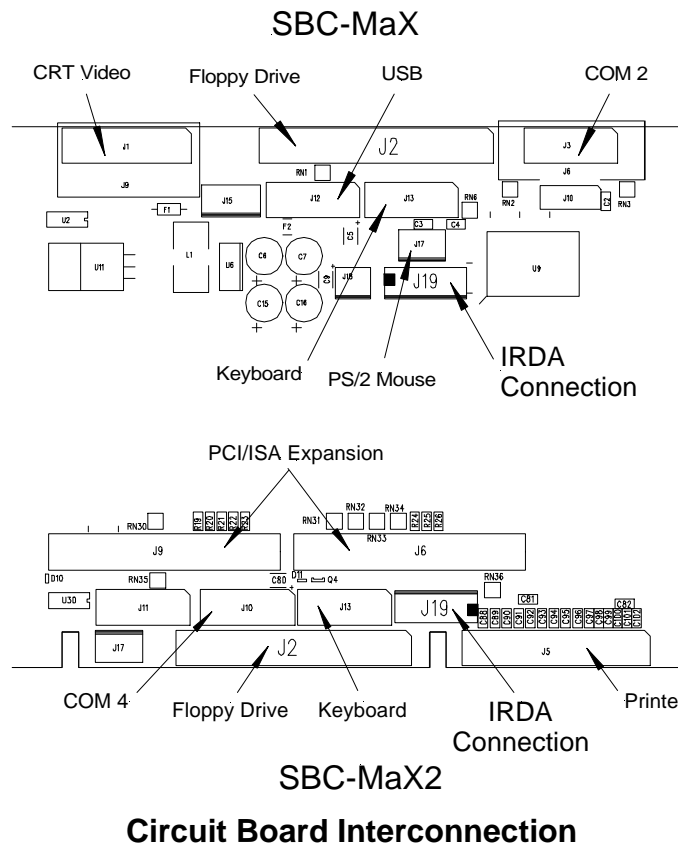
| <b>Voltage</b> | <b>Maximum Power</b> |
|----------------|----------------------|
| + 5 Vdc        | 35 mW                |

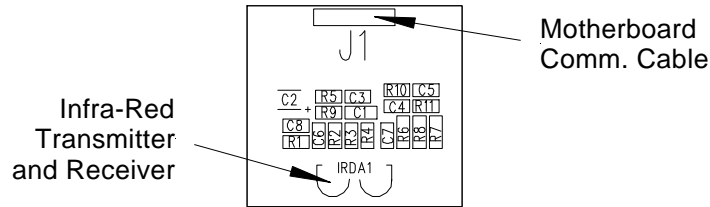
# Installation

1. *Make sure Power is OFF.*
2. Connect the 5 x 2 connector on one end of the cable to the IRDA board. Be careful to align Pin 1 of the cable (Brown wire in multi-colored cable, or Red stripe on Grey cables) with Pin 1 on the board (as shown in the drawing below).



3. Connect the 7 pin inline connector on the other end of the cable to the SBC-MaX or SBC-MaX2 computer at J19.
4. Check all connections, then power on the Computer.





## IRDA Board Assembly

# Setup

## BIOS Settings

1. On power-up pressing the F2 key when prompted will enter the BIOS Setup Menu. Make the following setting change. Press the right arrow key until the 'Advanced' menu is selected.
2. Using the up and down arrow keys, highlight 'UART 2 mode' then press the 'space' bar to select which IrDA format you will be using. The two formats supported are HPSIR, and ASK IR. Be sure to select the same format that the remote device will be using.
3. Use down arrow to highlight 'IR Duplex Mode' then press the 'space' bar to select 'Half Duplex.'
4. Press 'Esc' twice to get to the 'Exit' menu.
5. Select EXIT, then 'Save Changes and Exit'. You will see a notice indicating that changes have been saved.
6. Press 'Enter' once more to reboot the system with new settings

## Drivers

**NOTE: Device setup procedures shown here are based on Windows 95™. Setup instructions are similar for other Operating Systems.**

1. To set up the optional IRDA drivers, select START | SETTINGS | CONTROL PANEL | ADD NEW HARDWARE
2. When the 'Add New Hardware Wizard' appears, select NEXT, then NO on the 'Search for New Devices' screen and select NEXT.
3. Scroll down through the list of device types and select the 'Infrared' type, then select NEXT.
4. Press NEXT again, and select '(Standard infrared devices)' from the 'Manufacturers' box.
5. Now, select 'Built-in Infrared port on laptop or desktop' and press NEXT.
6. You will be asked to select the port that the Infrared device is physically connected to, choose 'COM2.'

7. Windows will create a virtual COM and LPT port that applications will use to access the IrDA port. Select NEXT to use the default port, or select CHANGE PORTS if you wish to change the virtual port assignments, then select NEXT.
8. Windows will install the device drivers, a reboot may be required for the driver setup to complete.
9. Restart the computer.

## Software Application

Configuring the application software to use the IrDA function:

Instructions for all popular applications are impossible to present here. See the instruction manual and online help for configuration information on the application(s) being installed. The example given here uses a common Windows tool, HyperTerminal, to illustrate the process.

1. Start the application software that you wish to use with the IrDA port, for example, HyperTerminal.
2. Setup the application to point to the new virtual COM or LPT port that was created by Windows for use with the IrDA function. For example, the IrDA is physically connected to COM2, but Windows created the virtual COM5, and LPT2 ports for use with IrDA.
3. Setup the application software to use either COM5, or LPT2, but not COM2. Please note that the HyperTerminal application can only use COM1-COM4. This is a limitation of the application software, not the operating system, nor hardware.

## Congratulations!

You have completed setup of your IrDA Module and it is ready for use. You may repeat the setup procedures above whenever it is necessary to change the characteristics for a different computer installation.

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## Technical Support

If you are experiencing problems with your IrDA Module, or if you require additional information for implementing your IrDA Module, please contact your Computer Dynamics Applications Engineer with the specifics. We are available by phone Monday through Friday, 8:00 am to 6:00 pm, Eastern Time, and by fax or email anytime.



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Rev. 2000-03-27