

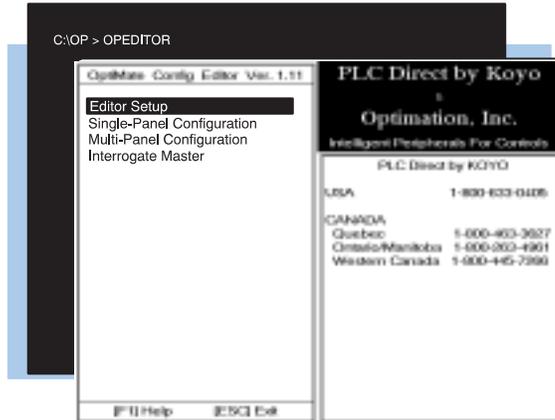
Step-by-Step Procedure

NOTE: You do not have to be connected to the OP-panel in order to design your configuration. You can save it to disk and download it to the panel later.

Step 1 Load the OPEditor and Complete the Editor Setup

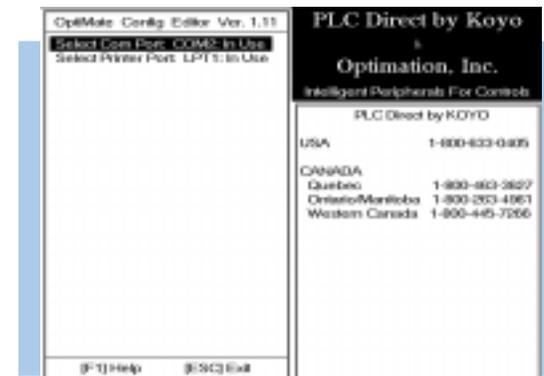
You can operate the OPEditor as a DOS program out of DOS only. Do not attempt to operate the program out of Windows. If you are in Windows, close Windows completely, change to the directory in which you have stored the OPEditor executable file (default is C:\OP), and then type the file name (OPEDITOR) from the DOS prompt.

The first configuration screen has 4 choices. You should select the first choice, **Editor Setup**.



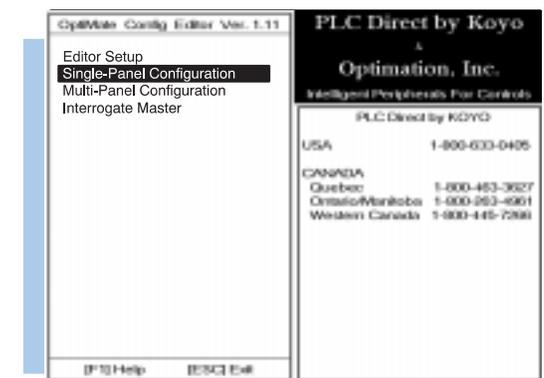
Step 2 Select the LPT and COM ports

The setup screen provides two serial port options: You must specify which of the serial ports (**COM1** or **COM2**) that you will be using when communicating with your OP-panel. The setup screen will also allow you to designate which parallel port (**LPT1** or **LPT2**) to use for printing your configuration.



Step 3 Choose from Single or Multiple Configurations

Next, you must press <ESC> to return to the first screen again. Here you will need to select either the **Single-Module Configuration** or the **Multi-Module Configuration**. For this example, we will use the "Single" choice, but the "Multi-Module" choice follows much the same way.

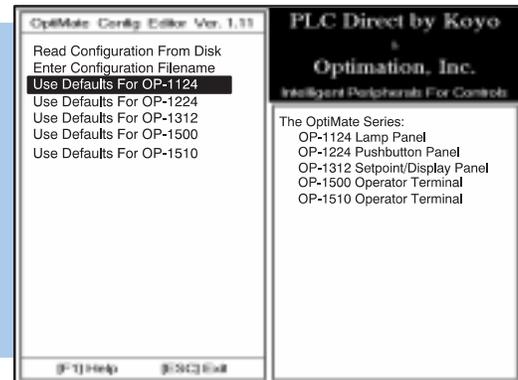


Step 4 Select the Source for your Configuration

When you select either single or multi-module installation, another menu appears that allows you to choose from the following actions:

- Read a configuration from the OP subdirectory
- Enter a path and filename of another directory for reading a configuration.
- Create a new configuration (default).
- Upload configuration from the panel.

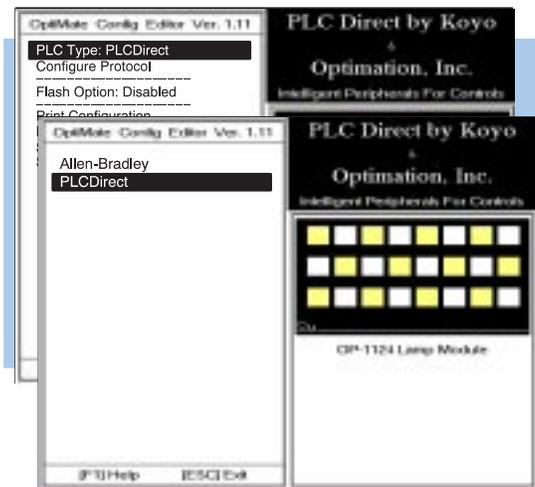
You will want to select **Use Defaults For OP-1124**, since you are creating a configuration file for the first time.



Step 5 Enter the Correct PLC Brand and Type

As soon as you make the above selection and press the <Enter> key, you will return to a screen that allows you to enter the type of PLC you will be using. It leads you to a second screen with two choices. Here you should select either **PLC Direct** or **Allen-Bradley**.

Press the <Enter> key to return to previous screen.



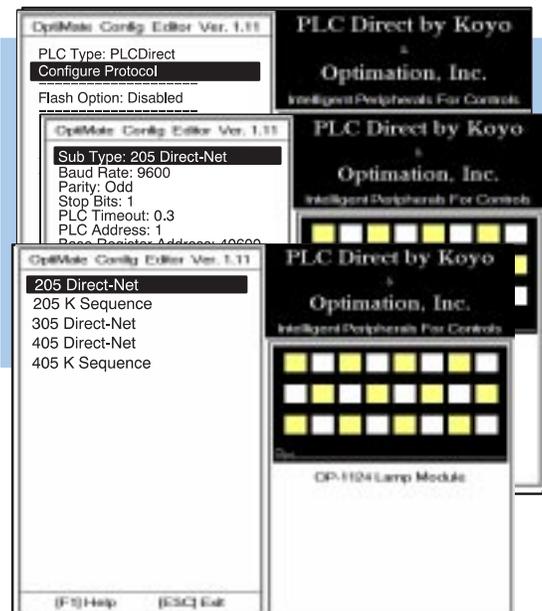
Step 6 Select Configure Protocol

Now select the second line, **Configure Protocol**.

This will take you to another screen that gives you a selection of **PLC Subtype**. The default subtype is indicated. In this example shown, the default is **205 Direct-Net**. To change this, press the <Enter> key.

Select the desired protocol for the CPU subtype that you are using. Refer to the appropriate CPU User Manual for the correct protocol corresponding to the communications port you are using.

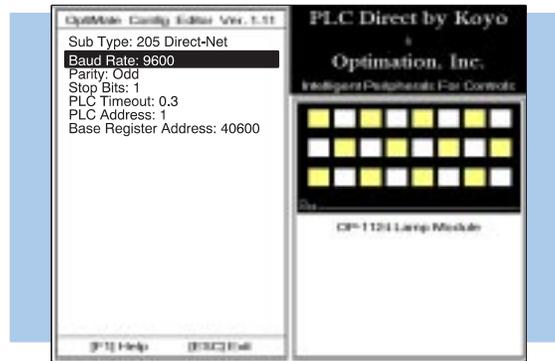
Make sure your choice here matches the CPU port into which you will actually be connected. On some models, one port is K-sequence and another may be DirectNet. On others, you may only have one protocol available.



Step 7A Complete the Communications Information

You should now be looking at a screen similar to the one shown here. If you are using a **PLC Direct** programmable controller, check the chart below for the proper **baud rate, parity and stop bit settings**. For other PLCs, check the respective User Manuals for the proper specifications. The OP-modules will support 4800, 9600 and 19200 baud. Other baud rates of the PLCs are not supported. The table shown below only includes those baud rates that are supported by the OptiMate panels.

You also see a **PLC timeout** selection on the above screen. This means when the panel receives a communications error, it will wait a specified amount of time to receive a good transmission. If it does not receive a good transmission within this timeout period, it will acknowledge the error by flashing all of the LEDs on the panel at a 4 Hz rate. *The default is 0.3 seconds for the timeout period.* You can change this if you want—the valid range is from 0.3 seconds to 25.5 seconds.

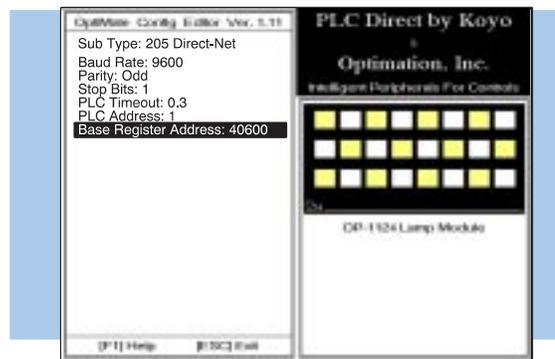


PLC Model	Port/Baud Rates	Parity	Stop Bit
DL230/240	Top 9600	Odd	1
	Bottom (DL240 only) 1200/9600/19.2k	Odd/None	
DL330	DCU 1200/9600/19.2k	Odd/None	1
DL340	Top 1200/4800/9600/19.2k	None	1
	Bottom 1200/4800/9600/19.2k	None	
DL430/440	Top 9600	Odd	1
	Bottom 1200/9600/19.2k	Odd/None	
DL450	DB15 9600	Odd	1
	DB25 1200/4800/9600/19.2k	Odd/None	
	RJ12 1200/4800/9600/19.2k	Odd/None	

Step 7B Select the Base Register Address and File Number

Here you need to indicate a base register address in your PLC that will be used for the mapping process. You should read the next section of this manual and make sure you understand the mapping process and how it relates to your PLC and ladder logic. Read your respective PLC User Manual for details on CPU memory types and memory available.

For **PLC Direct** and compatible CPUs, you will enter a **Base Register Address**. This is the V-memory (DL205/DL405) or R-memory (DL305) location where you want to store panel data. For example, you might choose V40600. You do not enter the letter V or R. You merely enter the starting memory number (i.e. 40600).

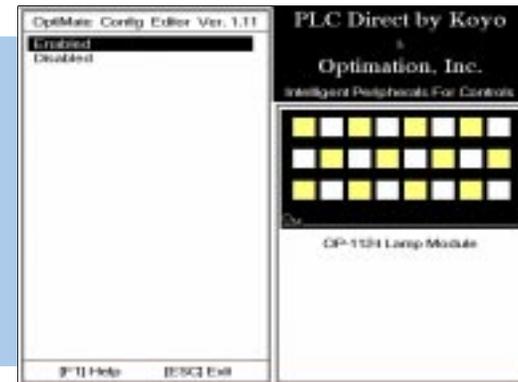
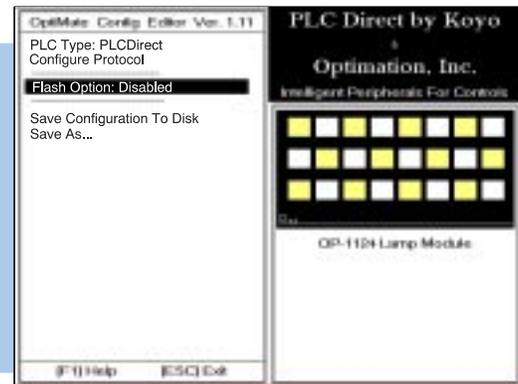


If you chose Allen Bradley as your **PLC Type**, you must now enter the **PLC File Number** in addition to a **Base Register Address**. The panel will only recognize integer file types N7 and pre-defined user file types N9 through N255. You enter only the number and not the prefix letter N. The **Base Register Address** is any number between 0 and 255. For example, if you want the starting address N7:0, you enter a **PLC File Type: 7** and a **Base Register Address: 0**.

Step 8 Set the Flash Option

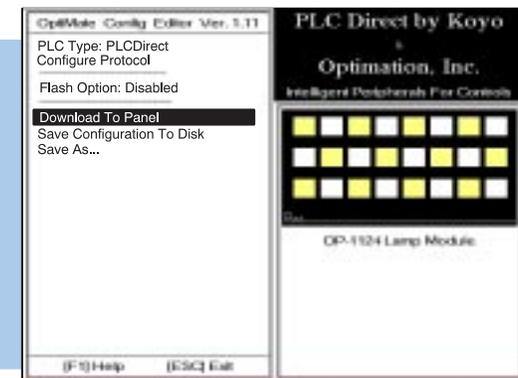
After you have completed Step 7B, press the **<Escape>** key and you will be taken back to the same screen used for Step 6. Here you can select the flashing option if you plan to have any of the lamps flash during your ladder logic operation. Flashing can provide added emphasis to one or more lamps that you may want to stand out from the rest. Be aware you consume less PLC memory if you don't enable the flashing feature. Default is set for no flashing.

If you want to change the flashing option, position the cursor on **Flash Option:Disabled** (shown above) and then press the **<Enter>** key. The new screen (shown to the right) gives you a choice of **Enabled** or **Disabled**. Make your selection and press the **<Enter>** key again. This will return you to the original screen (top).



Step 9 Save and Download

If you have done your configuration without being connected to the OP-panel, then you can either save it to a disk and download it to the panel later; or you can connect to the panel now, and make your download. To download, select **Download to Panel** and press the **<Enter>** key. The panel will retain the configuration in its non-volatile EEPROM memory, but you should also save it to your hard drive or a disk.



NOTE: Remember that you must have the DIP switch on the rear of the OP-panel set to address 31 in order for the downloading of your configuration to take place.