Eaton Corporation
Distributed Power Solutions – ePDU
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IPC34xx SETUP GUIDE

HARDWARE SETUP

1. Connect your power cable to the IEC power inlet located on the back of your IPC34xx and make main power connection to your electrical outlet. (Power cable must be ordered separately!)
2. For Ethernet use (-NET version only), make connection between the RJ45 connector labeled **J11 NET** and your Ethernet using a standard 10Base-T cable.
3. For RS232 serial control, connect a straight-through direct serial cable (do not use a null modem cable) to the DB9 port labeled **J10 Serial**. Connect the other end to your computers RS232 port (COM Port).
4. Set the IPC34xx strapping select switch to 0. (This number is assigned to only the first unit in the stack!) Up to 10 units can be stacked. Each unit must have a unique number in the stack (0-9). Interconnect additional units using strapping connectors **J9 IN** and **J10 OUT**.

CONFIGURING SERIAL (RS232) CONNECTION

The IPC34xx can be configured for local management using the serial interface. To access the IPC34xx set the terminal port to the communication settings shown below. Serial interface users have access over Telnet users.

Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None
Terminal Type	ANSI (VT100)
Local Echo	Off

CONFIGURING TCP/IP SETTINGS (ETHERNET CONNECTION)

Windows Method – Device Installer:

The Device Installer is available under Windows based system.

1. Download and install Device Installer from Eaton by going to www.ePDU.com.
2. Make sure your IPC is on and connected to your LAN. Run Device installer and select File / Search Network. Select your network class and start search. It should find at least one unit. Select save and close the search window.
3. Select the IPC that you want to assign an IP address to and click on the IP button at the top of the program. Type in the IP address you want and select the correct subnet Mask. Click Set IP Address

Universal Method – ARP Command:

The ARP method is available under UNIX and Windows based systems. The IPC34xx network card will set its address from the first directed TCP/IP packet it receives.

1. In a Windows based system, open a MS DOS prompt.

(In a UNIX system, skip step 1 and 2)

2. In order for the ARP command to work in Windows, the ARP table on the PC must have at least one IP address defined other than its own. If the ARP table is empty, the command will return an error message. Type ARP -A at the DOS command prompt to verify that there is at least one entry in the ARP table.

```
arp –a
```

   If the local machine has only one entry, ping another IP address on your network to build a new entry in the ARP table. The IP address you ping must be a number other than the machine on which you are working.

3. Once there is at least one additional entry in the ARP table, use the following command to ARP an IP address to the IPC34xx. The first number is the IP address you wish to assign to your IPC34xx. The second number is the MAC address of the IPC34xx located on the bottom of your unit:

```
arp –s xxx.xxx.xxx.xxx 00-20-4a-xx-xx-xx
```

   (In a UNIX systems enter the arp command as follows:)

```
arp –s xxx.xxx.xxx.xxx 00:20:4a:xx:xx:xx
```

3. Now open a Telnet connection to port 1. The connection will fail quickly (3 seconds), but the IPC34xx will temporarily change its IP address to the one designated in this step.

```
Telnet xxx.xxx.xxx.xxx 1
```

4. Open a Telnet connection to port 9999 to set the required parameters. Once the setup screen opens, you will need to press enter quickly.

```
Telnet xxx.xxx.xxx.xxx 9999
```

5. After pressing enter you will see a setup menu. Select **0** for **Server Configuration**. You will be prompted for the IP address, 3 characters at a time. Enter the IP address that you would like to assign to the IPC34xx. Enter through all the other settings.
6. You will return to the main menu. Select **2** for **Channel 2 Configuration****. Enter through the choices, until prompted for the **Port No?** Enter the desired port number. Port 23 is the standard Telnet port number, which the unit is default set to. Enter through all the other settings.
7. You will return to the main menu. Select **9** to **Save and Exit**. Your IP address and Port number are now saved in memory.
8. You are now ready to open a Telnet session with the IPC34xx at the specified IP address and port number.

*** Use Channel 1 configuration if Channel 2 configuration is not an option on your IPC*.

Serial / Telnet Control

1. Type the unit name and press Enter. (Default is @@@@)
2. The unit will respond with IPC@@@@. You can now execute any of the following list of commands:
3. Commands must be entered in all capital letters. **<Enter>** is required after each command.
4. Note that the serial RS232 interface takes priority over the Ethernet telnet/web interfaces. The telnet/web interfaces cannot be used unless the serial interface is disconnected.

"xx" represents the outlet number "01" to "80", if no units are stacked, this is "01" to "08"
"n" represents the unit stack number "0" to "9", if no units are stacked, this number is "0"

Command	**Description**
A1n	Turns all outlets ON for any unit "n" in the stack
A0n	Turns all outlets OFF for any unit "n" in the stack
Nxx	Turn ON any outlet "xx" in the stack individually
Fnn	Turn OFF any outlet "xx" in the stack individually
S1n	Sequence all outlets in unit "n" ON with preset delays, lowest first
S0n	Sequence all outlets in unit "n" OFF with preset delays, highest first
ADn	Enter new IPC user name, any 4 characters
ISn ---------- P D	Set the power up/down sequence in unit "n". Unit will prompt for (P) Preset or (D) Default. This will determine how the unit powers up after a cycling the main power. Preset will allow you to enter the power up delay for each outlet, 000 will reset the outlet to the OFF position. Enter 001 for a 1 second delay, 002 for a 2 second delay, etc. up to 999 seconds. Default will power outlets on in the same state they were before main power was removed.
DXn	Displays the outlet status (ON/OFF), watchdog status and remote status for unit "n" in the stack.
AEn ---------- Y N	Auto enable status update for unit "n" in the stack. Unit will prompt you for (Y) yes or (N) no. Yes- Unit will update status after each change. No- Unit will not update status after each change.
WE0	Watchdog enable for unit "0" in the stack. This will turn on the watchdog feature, which will reboot unit "0" if no communication is detected with the IPC34xx for the preset time - see WT0 command.
WT0	Watchdog timeout sets the timeout period for unit "0" in the stack. Unit will prompt you for the time period. Enter a number "0" to "9". Each number represents 30 seconds. "0" is 30 seconds, "1" is 60 seconds, "2" is 90 seconds, and up to "9" is 300 seconds. Unit will monitor the communications and will reset if no communication is detected within this set time period.
WD0	Watchdog disable for unit "0" in the stack. This will disable the watchdog feature.
PWn	This will turn on the password protection for unit "n" in the stack and will prompt the user for a 3 character password. Any 3 characters can be used.
PDn	This will disable the password protection for unit "n" in the stack.
SR0	System reboot for outlet J1 in unit "0" in the stack. This command will power off and on outlet J1 with a 5 second reboot period.
LO	Log out will end your session with the IPC34xx. This command must be entered twice to log off from more than one unit in the stack.
?	Display the command menu.
CNnx	Outlet name entry 8 characters where "n" is the unit number and "x" is the outlet of that unit
DNn	Displays the outlet status with outlet names (ON/OFF), watchdog status and remote status for unit "n" in the stack

Web Browser Control

1. Connect to the IPC in your web browser by going to http://xxx.xxx.xxx.xxx/webipc.html where xxx.xxx.xxx.xxx is the IP address of your unit.

2. Type in your user name (default is @@@@) and port number (default is 23). If you have this unit daisy chained with other units check the stacked button and click log in. Please note that only one user can be logged onto the IPC at any given time.

3. Click on the buttons to perform the desired function.

For contact or e-mail information, please visit www.ePDU.com.

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Declarations and updates
available at **www.ePDU.com**
Email: **singlephaseTS@eaton.com**
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