ioPower
`Serial Command Set`

Before you use the serial command ...

(1) To use the serial commands for ioPower control, you have to **establish a HyperTerminal connection between ioPower and the host PC, using a RS-232 cable for connection. Use the following parameters for HyperTerminal connection:**

> **Bits per seconds:** 9600
> **Data bits:** 8
> **Parity:** None
> **Stop bits:** 1
> **Flow Control:** Hardware

(2) After your HyperTerminal session has been established, you have to **hit the *Enter* key twice to go into command mode**, then you can input the serial commands within the HyperTerminal window according to the following command usages ....

`Command usage notes:`

`1. The commands are` **`NOT`** `case-sensitive. That means you can use lower case in typing your commands! The commands does not require a strict double-digit entry of bank number or port number (such as` `ON 01 03 – Power on bank 1 port 3`) `but can accept their single-digit entries (such as` `ON 1 3`)`, and also allow multiple blank spaces in between its command parameters (such as` `ON    1    3`)`.`

`2. When using the HyperTerminal, note that` **`ScrollLock should not be ON`**`. Otherwise, it will block you from entering commands. ScrollLock is OFF by default in HyperTerminal. However, if you cannot type in commands, please check the SCrollLock status, which can be viewed on status bar at the bottom of your HyperTerminal window. If ScrollLock is ON, hit ScrollLock key again to relieve it.`

`HELP – Show Help Menu`
`[Description]Show the Help Menu on the HyperTerminal screen`
`[Usage] HELP`
`[Example] Help`

`? - Show Help Menu`
`[Description]Show the Help Menu on the HyperTerminal screen`
`[Usage] ?`
`[Example]`
`?`

`QUIT - Exit serial command mode`
`[Description] exit serial command mode`
`[Usage] QUIT`
`[Example]`
`QUIT`

`Notes: Once you exit serial command mode, you have to hit Enter twice again to enter the serial command mode again.`

ON – Power ON
```
[Description]Power on one/all AC outlet port(s) immediately
[Usage] ON [bank_number] [port_number]
[Examples]
ON 1 4 – Power on port 4 on bank 1 immediately
ON 1 0 – Power on all ports on bank 1 immediately
ON 0 0 – Power on all ports on all cascaded banks immediately
Notes:
1. A port number of 0 represents all ports; while a bank number of 0 represents all
cascaded banks.
2. The command: ON 0 x ………, x = 1~9, is not valid.
```

OF – Power OFF
```
[Description]Power off one/all AC outlet port(s) immediately
[Usage] OF [bank_number] [port_number]
[Examples]
OF 1 4 – Power off bank 1 port 4 immediately
OF 1 0 – Power off bank 1 all ports immediately
OF 0 0 – Power off all ports on all cascaded banks immediately
Notes:
1. A port number of 0 represents all ports; while a bank number of 0 represents all
cascaded banks.
2. The command: OF 0 x ………, x = 1~9, is not valid.
```

TA – Timer Activate at specific time point
```
[Description]Set the timer to turn on/off a specific port at specific time
[Usage] TA [bank_number] [port_number] [ON | OF] [Time_point]
[Examples]
TA 1 4 ON 01:22:50 – Set timer to power on port 4 on bank 1 exactly
     at 01:22:50.
TA 1 0 ON 00:10:00 – Set timer to power on all ports on bank 1 exactly
     at 00:10:00
TA 0 0 OF 01:00:00 – Set timer to power off all ports on all cascaded
     banks at 01:00:00
Notes:
1. A port number of 0 represents all ports; while a bank number of 0 represents all
cascaded banks.
2. The command: TA 0 0x ………, x = 1~9, is not valid.
3. The system time should be calibrated before use for the first time.
```

TF – Timer Activate after specific time duration
```
[Description]Set the timer to turn on/off a specific port after specific time duration
[Usage] TF [bank_number] [port_number] [ON | OF] [Time_duration]
[Examples]
TF 1 4 ON 03:25:56 – Set timer to power on port 4 on bank 1 exactly
     after 3 hour 25 minutes and 56 seconds.
TF 1 0 ON 00:10:00 – Set timer to power on all ports on bank 1 exactly
     after 10 minutes
TF 0 0 OF 01:00:00 – Set timer to power off all ports on all cascaded
     banks after 1 hour.
Notes:
1. A port number of 0 represents all ports; while a bank number of 0 represents all
cascaded banks.
2. The command: TF 0 0x ………, x = 1~9, is not valid.
```

ED – Timer Activate everyday at a specific time point
[Description]Set the timer to turn on/off a specific port every day at specific time point
[Usage] ED [*bank_number*] [*port_number*] [ON | OF] [*Time_point*]
[Examples]
ED 1 4 ON 02:12:20 – Set timer to power on port 4 on bank 1 exactly
       every day at 02:12:20.
ED 1 0 ON 00:10:00 – Set timer to power on all ports on bank 1 exactly
       every day at 00:10:00.
ED 0 0 OF 01:00:00 – Set timer to power off all ports on all cascaded
       banks every day at 01:00:00.
Notes:
1. A port number of 0 represents all ports; while a bank number of 0 represents all cascaded banks.
2. The command: ED 0 0x ………, x = 1~9, is not valid.

EW – Timer Activate every week at a specific time point
[Description]Set the timer to turn on/off a specific port every week at specific time point
[Usage] EW [*bank_number*] [*port_number*] [ON | OF] [*day*] [*Time_point*]
[Examples]
EW 1 4 ON 1 01:22:50 – Set timer to power on port 4 on bank 1 exactly
       every Monday at 01:22:50..
EW 1 0 ON 3 00:10:00 – Set timer to power on all ports on bank 1 exactly
       every Wednesday at 00:10:00.
EW 0 0 OF 5 01:00:00 – Set timer to power off all ports on all cascaded
       banks every Friday at 01:00:00.

Notes:
1. A port number of 0 represents all ports; while a bank number of 0 represents all cascaded banks.
2. The command: EW 0 0x ………, x = 1~9, is not valid.
3. A day of 0 represents Sunday; while a day of 1 represents Monday, later calculate for this reason.

TQ – Timer Quit
[Description]Cancel a specific/all timer setting(s)
[Usage] TQ [*bank_number*] [*port_number*] [ON | OF]
[Examples]
TQ 1 4 ON – Cancel timer power-on setting on port 4 of bank 1
TQ 1 4 ON – Cancel timer power-on setting on port 4 of bank 1
TQ 0 4   – Cancel timer power-on&off setting on port 4 of bank 1
TQ 1 0 OF – Cancel timer power-off setting on all port of bank 1
TQ 0 0 ON – Cancel timer power-on setting on all port of all banks
TQ 0 0   – Cancel timer power-on&off setting on all port of all banks

Notes:
1. A port number of 0 represents all ports; while a bank number of 00 represents all cascaded banks.
2. The command: TQ 0 x ………, x = 1~9, is not valid.
3. If you have not specified either "ON" or "OF" as the command parameter, it is assumed that this Timer Quit directive will be directed on both the Power-ON and Power-OFF setting of that specific port.

ST – Status
[Description]Show the system status of a specific bank, such as current loads, on/off status and timer settings
[Usage] ST [*bank_number*]
[Examples]
ST 1 – Show the system status of bank 1
ST 16 – Show the system status of bank 16
ST 0 – Show the system status of all banks

UPGRADE – Upgrade Firmware
[Description]Upgrade the system firmware
[Usage] UPGRADE
[Example]
UPGRADE

Note: Please also refer to *ioPower Flash Operation Guide* for details.

SETTIME – Set Up System Date and Time
[Description]Set up the system date and time
[Usage] SETTIME [20*yy/mm/dd*] [*hh:mm:ss*]
[Example]
SETTIME 2004/09/27 18:10:00 – Set up the system Date and time to be 2004/09/27 18:10:00

GETTIME – Get System Time
[Description]Show the system date, day and time
[Usage] GETTIME
[Example]
GETTIME

VER – Firmware Version
[Description]Show the firmware version of a specific bank.
[Usage] VER [*bank_number*]
[Example]
VER 01 – Show the firmware version of bank 1
VER 16 – Show the firmware version of bank 16
VER 00 – Show the firmware version of all bank

~ The End ~