

How to set IPORT114 and IPORT118 interface

1. DIP switch in front panel

- a) In front panel of IPORT114/118 box we can see one 4bit DIP switch.
- b) In bit 1 location we can use this bit to let serial port 1 of IPORT box to be used as console setup port (DIP switch ON) or normal serial port application (DIP switch OFF). (factory default condition is OFF)
- c) In bit 2 location we can use this bit to let IPORT box to enter "firmware upgrade" mode upon power on (DIP switch ON) or enter "normal" application mode (DIP switch OFF). (default OFF).
- d) In bit 3 & 4 location we can set all serial port in IPORT box to be target RS232, RS422 or RS485 interface or use software to set each serial port to target interface type independently.
- e) When bit 3 & 4 in OFF location we will use software setup to assign interface type for each serial port. In other condition (both bits not in OFF location) we will have target interface type for all serial port.

2. Software Setup

- a) When we need to set each serial port in IPORT114/IPORT118 to have RS232, RS422 or RS485 interface independently. We need to set bit 3 & 4 location in front panel's DIP switch in OFF condition.
- b) In WEB setup or Console setup we can set each serial port interface type to be "RS422", "RS485", "RS232", "Disable".
- c) "Disable" mode will let this serial port stop to send/receive data.
- d) All software setup for interface type will be available in next boot procedure. So you need to reboot your system to let your target setup available as your target.

3. Hardware Setup

- a) When we use DIP SWITCH bit 3 & 4 in not OFF condition, we will let all serial port interface type to be set by DIP SWITCH bit 3 & 4. Bit 3 in ON location and bit 4 in ON location it is set to RS422 mode. Bit 3 in OFF location and bit 4 in ON location it is set to RS485 mode. Bit 3 in ON location and bit 4 in OFF location it is set to RS232 mode.
- b) Hardware setup will override the software setup.

4. Factory default condition

- a) In factory default condition we have all bit OFF in front panel's DIP switch. So we will let software setup to define each serial port's interface type.

5. How to use serial port in RS485 environment

- a) We have TX+, TX-, RX+, RX-, GND signal in each serial port DB9 connector.
- b) When you need to use 2 wire RS485 application, you need to short TX+ and RX+ as DATA+ signal. You need to short TX- and RX- as DATA- signal.