

## How to set IPORT134I and IPORT138I interface

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### 1. DIP switch in front panel

- a) In front panel of IPORT134I/138I 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 location we can use this bit to let all serial port in IPORT box to be RS422 interface (DIP switch 3 ON) or RS485 interface (DIP switch 3 OFF). We also need to let bit 4 location in ON condition for this application environment. (default OFF).
- e) In bit 4 location we use this bit to let all serial ports in IPORT box as RS422/RS485 interface set by bit 3 (DIP switch 4 ON). Or each serial port in this box can be set in RS422 or RS485 interface independently by software setup. (DIP switch 4 OFF). (default OFF).

### 2. Software Setup

- a) When we need to set each serial port in IPORT134I/IPORT138I to have RS422 or RS485 interface independently. We need to set bit 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) Because we just have "RS422" or "RS485" interface to be use in IPORT134I/IPORT138I box. When we set in "RS232" type, it will be same as "RS422" type. When we set in "Disable" type, it will be same as "RS485" type.
- 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 4 in ON location, we will let all serial port interface type to be set by DIP SWITCH bit 3. Bit 3 in ON location it is set to RS422 mode. Bit 3 in OFF location it is set to RS485 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.