S 40 3F FF FF FF FF 03 **P**
// 40=> device ID, 3F=> pull up/ pull down Enable index, FF ~ 03 => all input pin pull up, due to all input when power on(default value) & 44H~48H =FF FF FF FF 03 when power on, if not at power on, need to 44H~48H => FF FF FF FF 03, 0FH~13H (I/O configuration index) set to FF FF FF FF 03 for input(high Z), 3F~43H=>FF FF FF FF 03, as below.

S 40 44 FF FF FF FF 03 **P S** 40 0F FF FF FF FF 03 **P S** 40 3F FF FF FF FF 03 **P**

S 40 0F 00 00 00 00 00 **P //**40=> device ID, 0F=>I/O config index, 00~00=> I/O config value registers=> Config all I/O= output
S 40 05 00 00 00 00 00 **P //**40=> device ID, 05=>output port index, 00~00=> set all I/O = 0.
S 40 0F FF FF FF FF 03 **P //**40=> device ID, 0F=>I/O config index, 00~00=> I/O config value registers=> Config all I/O= input, then I/O= high due to 3F~43H pull up/pull down Enable index value still FF~03 & 44~48H=>FF FF FF FF 03.

// Powe on again, device ID=44
S 44 0F FF **P S** 44 10 FF **P S** 44 11 FF **P S** 44 12 FF **P S** 44 13 FF **P** //INNITIA**L P**ORT **S**TATU**S to input & high Z.**

S 44 05 FC **P S** 44 06 FF **P S** 44 07 FF **P S** 44 08 FF **P S** 44 09 FF **P** // **P**O**W**ER U**P** FOR setting output state, but I/O still input direction.

S 44 0F FC **P S** 44 10 FF **P S** 44 11 FF **P S** 44 12 FF **P S** 44 13 FF **P** // **P**O**W**ER U**P** FOR OUT**P**UT direction. I/O= 05~09H data vlue.

// read I/O states
// Power on again or after reset
// Device ID=40
S 40 3F FF FF FF FF 03 **P //** I/O= Pull up
S 40 00 **P//** Command index=00H => input port
S 41 d d d d d **P//** read command of 41H, d = read input state