
FAQ-028: How to use multi-port Modbus Master in the Wincon-8037/8337/8737 & Wincon-8036/8336/8736 ?

W-8x37 : driver ver. 3.20 or later

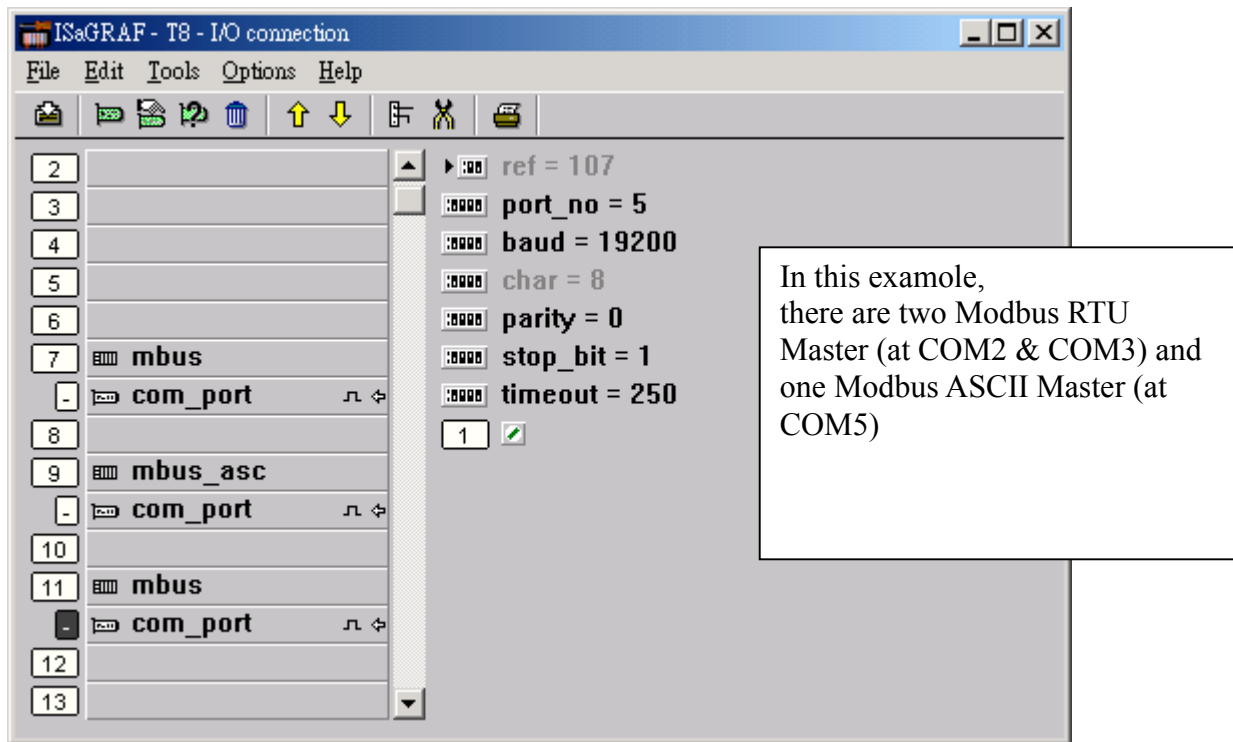
I-7188EG/XG & I-8417/8817/8437/8837 support only one Modbus Master port. (can be Modbus RTU Master or Modbus ASCII Master)

Wincon-8037/8337/8737/8036/8336/8736 support Multi-ports of Modbus Master. (can be Modbus RTU Master or Modbus ASCII Master)

To use multi-ports of Modbus RTU or ASCII Master in Wincon, please connect “mbus” or “mbus_asc” in the ISaGRAF I/O connection windows as below.

If you can not find “mbus_asc” in your ISaGRAF, please visit <http://www.icpdas.com/products/PAC/i-8000/isagraf.htm> to download “ICP DAS Utilities For ISaGRAF.zip”.

For new driver please click “New Driver for I-8xx7, 7188EG/XG & W-8x37”



Then using below function blocks in your ISaGRAF Ladder or Function block program.

Note:

1. The "SLAVE_" setting in the below function blocks means Port No. & slave No.

$$\text{Port No.} = \text{SLAVE} / 1000$$

$$\text{slave No.} = \text{SLAVE} \bmod 1000$$

For example,

if SLAVE = 2001, Port No. = COM2 & slave No. = 1

if SLAVE = 9002, Port No. = COM9 & slave No. = 2

if SLAVE = 10002, Port No. = COM10 (MSP1:) & slave No. = 2;

2. If you are using I-8112/8114/8142/8144 in Wincon, please plug these boards in Wincon first and then run "Start" – "Programs" - "Wincon utility" - "Com" - "New Card Wizard" - "Slot Scan" , then click on "Save New Module" to properly set each extra COM port.

Mbus_R	Read max. 12 word-value (-32768 ~ +32767) using Modbus function code 3 or 4 Read max.192 bit-value using Modbus function code 1 or 2
Mbus_R1	Same as Mbus_R but with one extra setting – Period. Read words or bits with a specified period time (unit is second)
Mbus_N_R	Read 8 word-value (-32768 ~ +32767) using Modbus function code 3
Mbus_NR1	Same as Mbus_N_R but with one extra setting – Period. Read 8 words with a specified period time (unit is second)
MBUS_B_R	Read 8 bit-value using Modbus function code 1
MBUS_BR1	Same as Mbus_B_R but with one extra setting – Period. Read 8 bits with a specified period time (unit is second)
MBUS_N_W	Write max. 4 word-value (-32768 ~ +32767) using Modbus function code 6 or 16
MBUS_B_W	Write max. 4 bit-value using Modbus function code 5 or 15
MBUS_WB	Write max. 16 bit-value using Modbus function code 15

Then follow below Ladder or Function block program.

For example:

