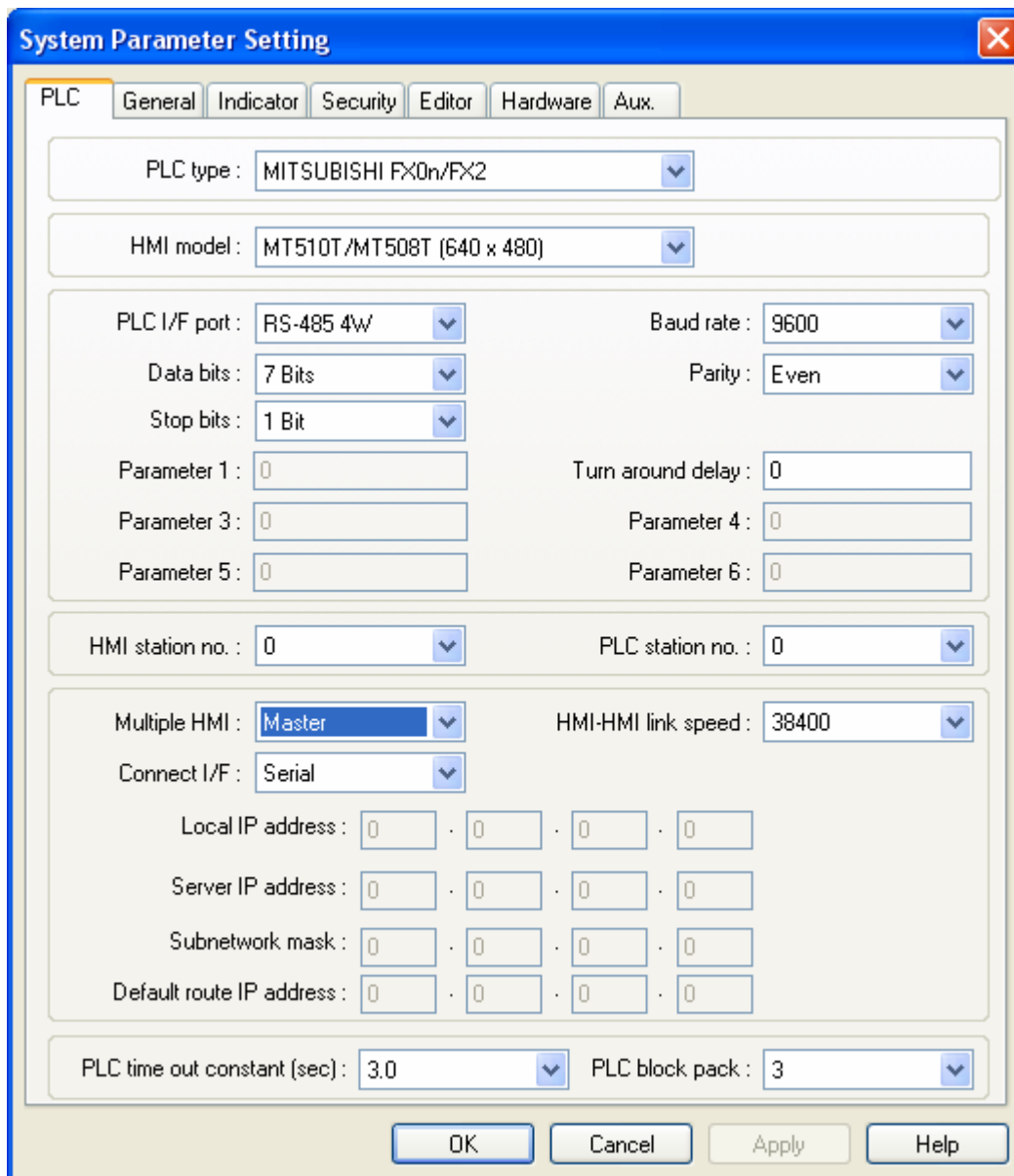


## Chapter 16. Multi-HMI Interconnection

HMI support PLC as [Master/Slave] communication. The first HMI connect with PLC, the second HMI connect to the first HMI, the third HMI connect to second HMI and so on. The first HMI have to set Master, the others is set Slave. The Slave HMI can get the data of PLC from the first HMI. Precaution: when connect over 3 HMI, the respond will not fast as connect one HMI.

In Multi-HMI connection, every HMI has the same project that download by EB500 except the first HMI. The first HMI has to set Mast in system parameter and the others have to set Slave.



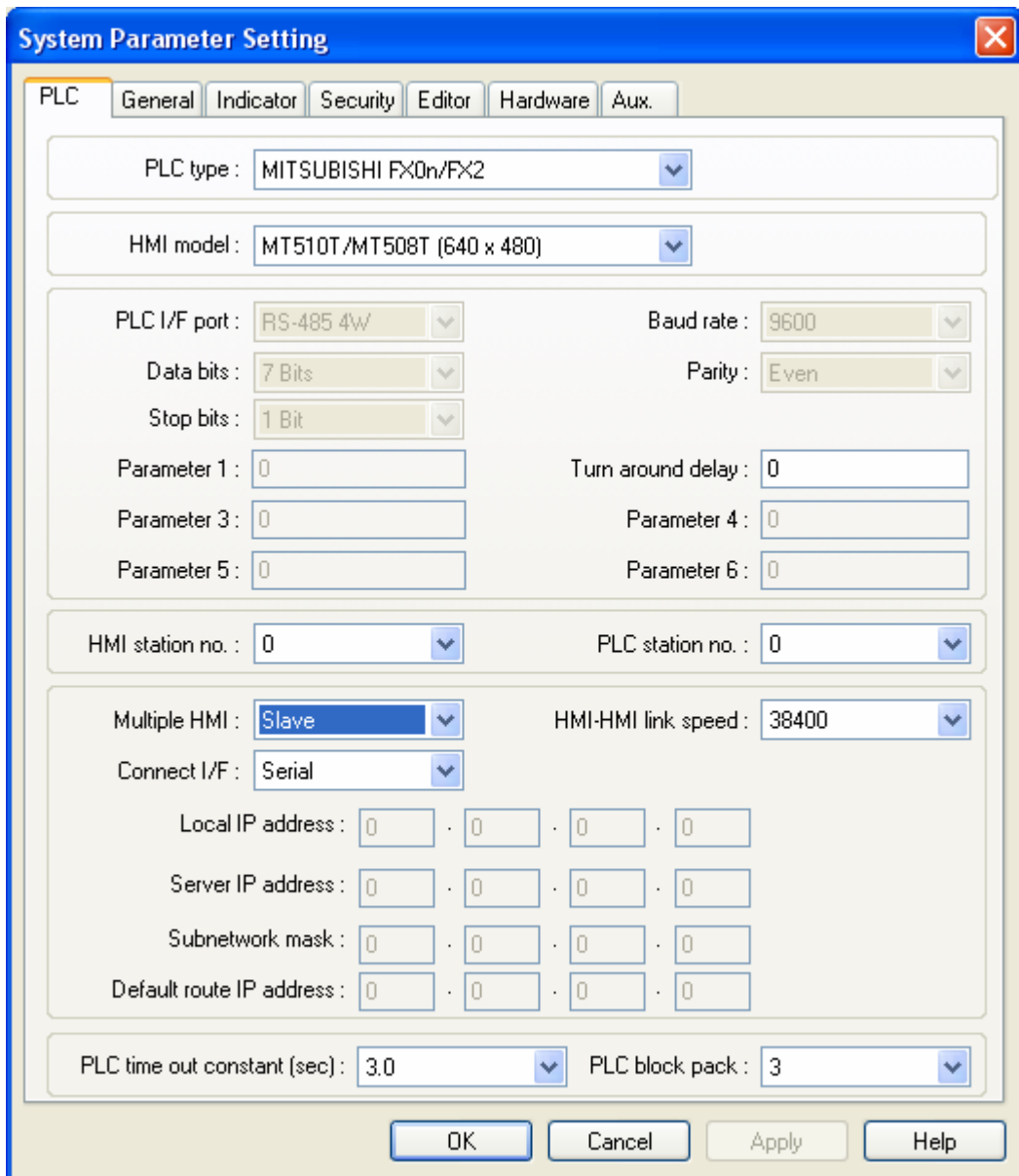
The screenshot shows the 'System Parameter Setting' dialog box with the 'PLC' tab selected. The dialog is divided into several sections for configuration:

- PLC type:** MITSUBISHI FX0n/FX2
- HMI model:** MT510T/MT508T (640 x 480)
- PLC I/F port:** RS-485 4w
- Baud rate:** 9600
- Data bits:** 7 Bits
- Parity:** Even
- Stop bits:** 1 Bit
- Parameter 1:** 0
- Turn around delay:** 0
- Parameter 3:** 0
- Parameter 4:** 0
- Parameter 5:** 0
- Parameter 6:** 0
- HMI station no.:** 0
- PLC station no.:** 0
- Multiple HMI:** Master
- HMI-HMI link speed:** 38400
- Connect I/F:** Serial
- Local IP address:** 0 . 0 . 0 . 0
- Server IP address:** 0 . 0 . 0 . 0
- Subnetwork mask:** 0 . 0 . 0 . 0
- Default route IP address:** 0 . 0 . 0 . 0
- PLC time out constant (sec):** 3.0
- PLC block pack:** 3

Buttons at the bottom: OK, Cancel, Apply, Help.

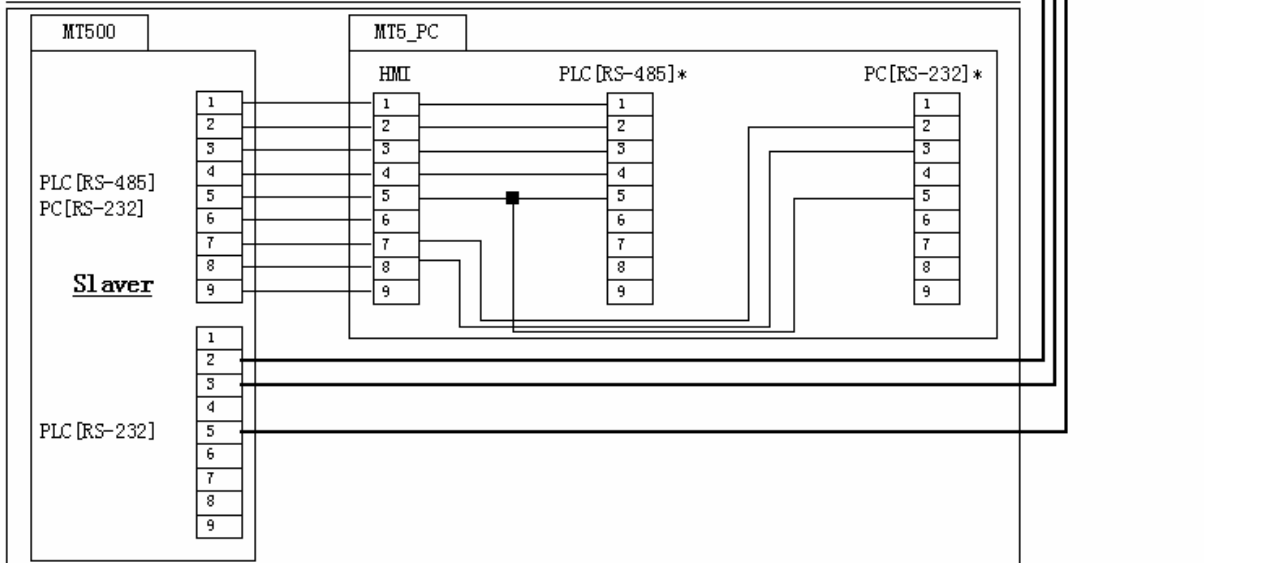
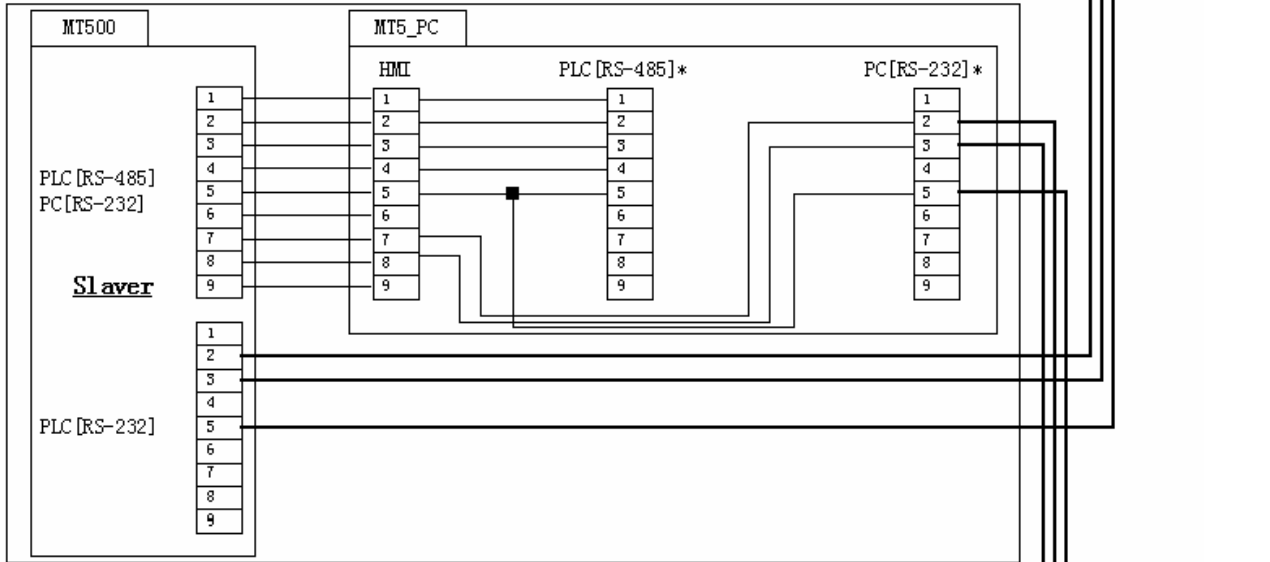
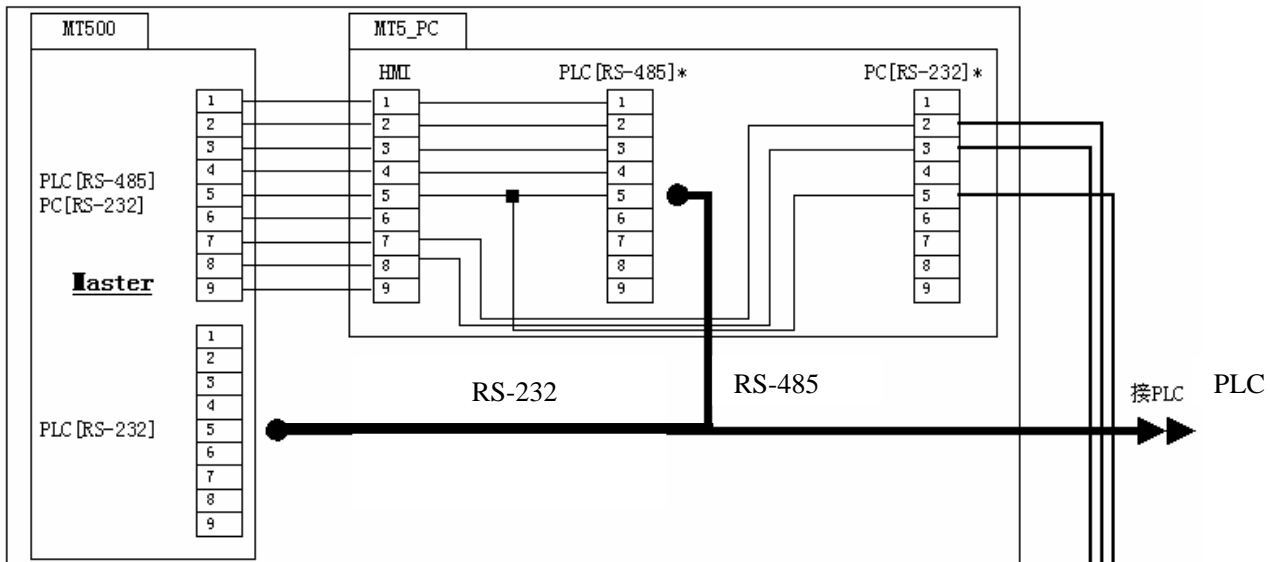
Precaution:

When HMI is set to Slave, the HMI will ignore baud rate, parity, PLC I/F port, Data bits and Stop bits setting between Slave HMI and PLC, the communication will refer Master HMI setting.

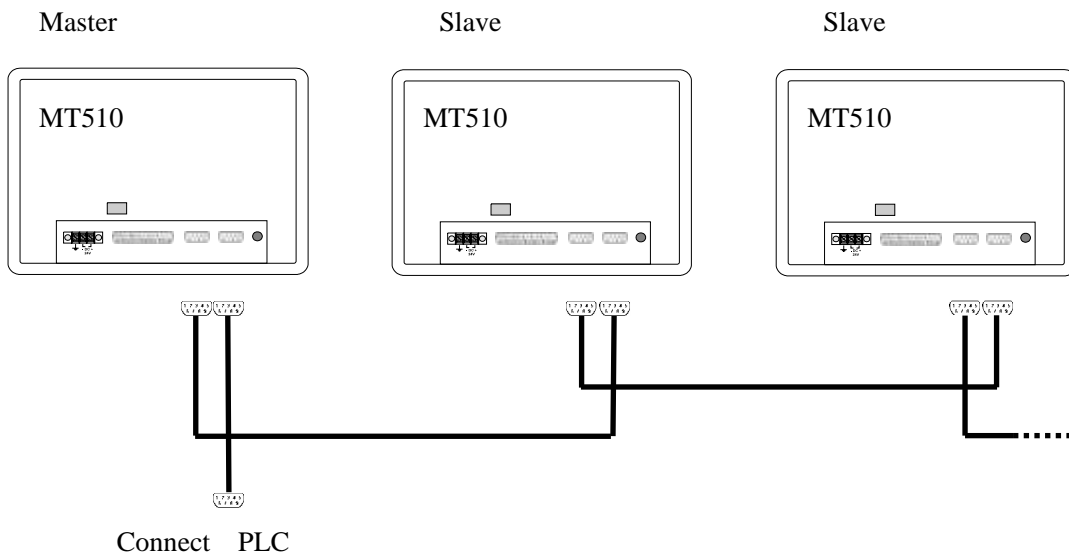
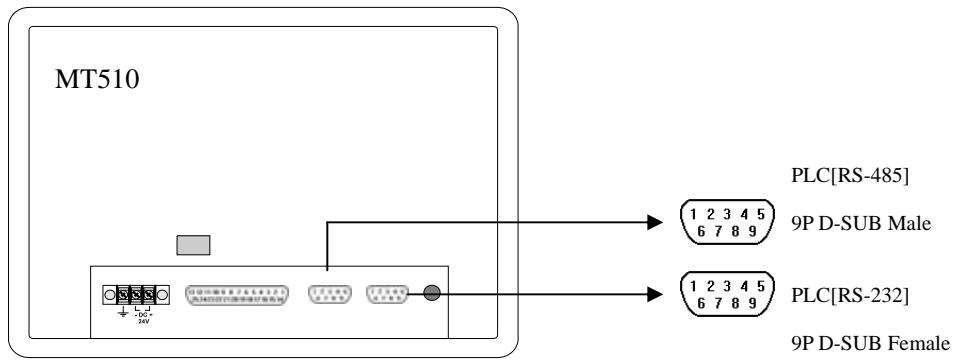


Please refer system parameter/PLC setting chapter.

The connection between HMI and PLC are the same as usual. Please refer appendix 1.  
For Multi-HMI connection depend on PLC port (RS232/RS485), as below illustration:



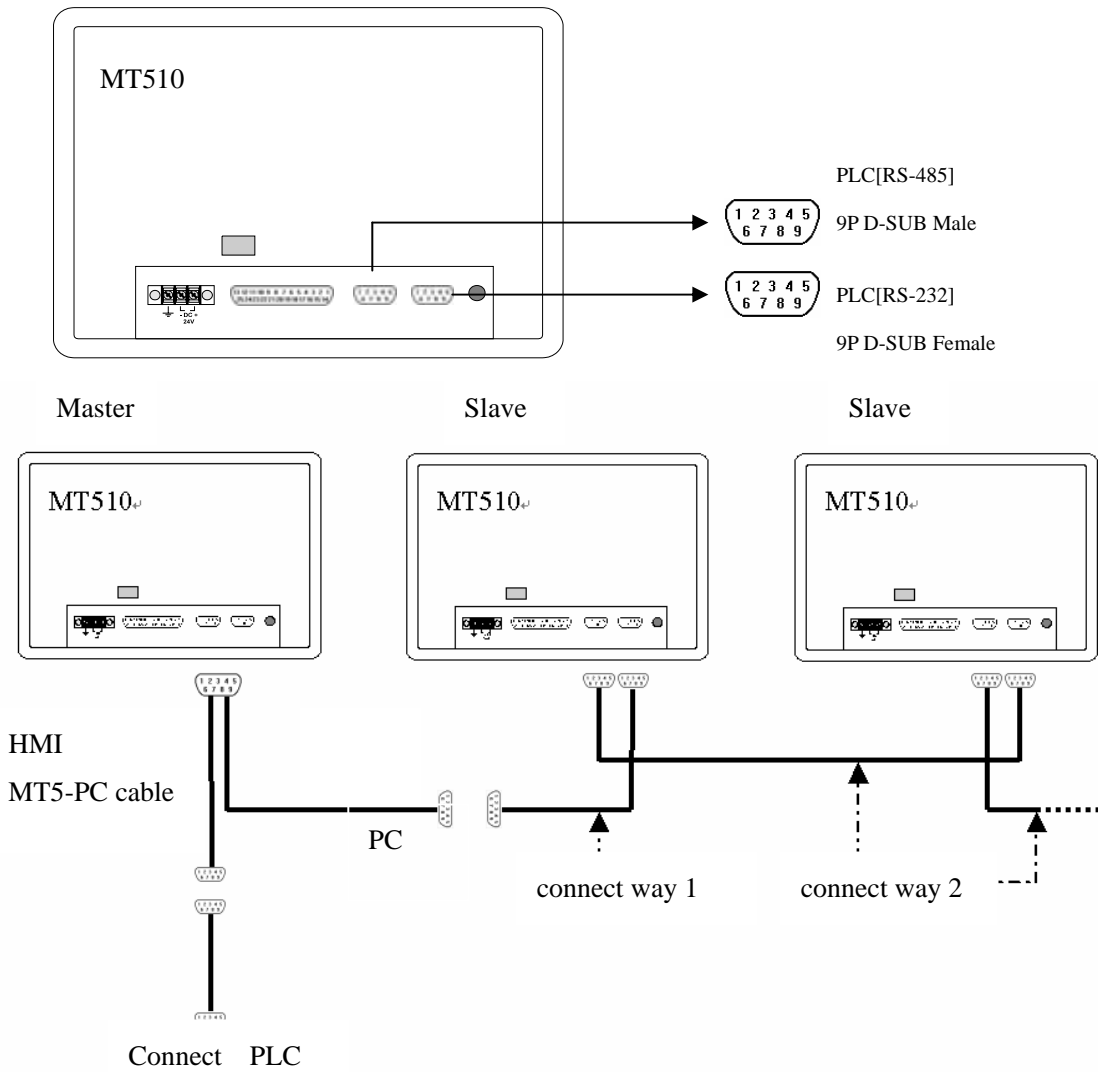
1 The PLC com-port is RS-232(example :OMRON PLC) , Wiring diagram as follows:



HMI interconnected wiring way:

Slave	Master
PLC[RS-232]9Pin Female	PC[RS-232] 9Pin Male
2 TD	8 RD
3 RD	7 TD
5 GND	5 GND

2 The PLC com-port is RS-422、485(example: Mitsubishi PLC) , Wiring diagram as follows:



HMI interconnected wiring way:

connect way 1:

Slave	Master
PLC[RS-232]9Pin Female	[MT5_PC cable]PC side 9Pin Female
2 TD	3 RD
3 RD	2 TD
5 GND	5 GND

connect way 2:

Slave	Master
PLC[RS-232] 9Pin Female	PC[RS-232] 9Pin Male
2 TD	8 RD
3 RD	7 TD
5 GND	5 GND