

## Mitsubishi QnA Series

Supported Series: Mitsubishi QnA Series

Website: <http://www.mitsubishi-automation.com>

### HMI Setting:

Parameters	Recommended	Options	Notes
<b>PLC type</b>	Mitsubishi QnA Series		
<b>PLC I/F</b>	RS232	RS232, RS485 4W	
<b>Baud rate</b>	19200		
<b>Data bits</b>	8		
<b>Parity</b>	Odd		
<b>Stop bits</b>	1		

\*Support communications between HMI and PLC in pass-through mode

\*Set LW-9903 to 2 to enhance the speed of download/upload PLC program in pass-through mode

<b>Online simulator</b>	YES	<b>Extend address mode</b>	NO
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### Device Address:

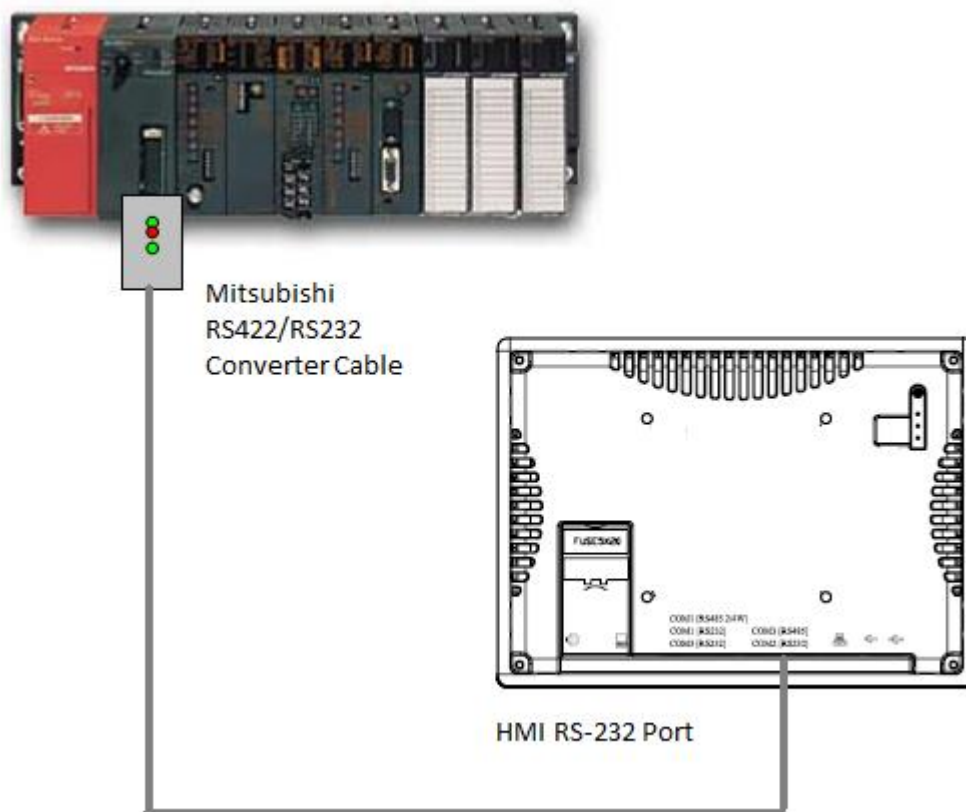
Bit/Word	Device type	Format	Range	Memo
B	X	HHHH	0 ~ 1fff	Input Relay
B	Y	HHHH	0 ~ 1fff	Output Relay
B	M	DDDDD	0 ~ 32767	Internal Relay
B	SM	DDDD	0 ~ 2047	Special Relay
B	L	DDDDD	0 ~ 32767	Latch Relay
B	F	DDDDD	0 ~ 32767	Annunciator
B	V	DDDDD	0 ~ 32767	Edge Relay
B	S	DDDD	0 ~ 8191	Step relay
B	B	HHHH	0 ~ 7fff	Link Relay
B	SB	HHH	0 ~ 7ff	Special Link Relay
B	TS	DDDDD	0 ~ 23087	Timer Contact
B	TC	DDDDD	0 ~ 23087	Timer Coil
B	CS	DDDDD	0 ~ 23087	Counter Contact
B	CC	DDDDD	0 ~ 23087	Counter Coil
B	D_Bit	DDDDHh	0 ~ 25983f	Data Register Bit
B	ZR_Bit	HHHHHh	0 ~ fe7fff	File Register Bit

Bit/Word	Device type	Format	Range	Memo
W	D	DDDDD	0 ~ 25983	Data Register
W	SD	DDDD	0 ~ 2047	Special register
W	W	HHHH	0 ~ 657f	Link Register
W	SW	HHH	0 ~ 7ff	Special Link Register
W	TN	DDDDD	0 ~ 23087	Timer Current Value
W	CN	DDDDD	0 ~ 23087	Counter Current Value
W	R	FFDDDDD	0 ~ 32767	File Register (FF:File No. 0~) (DDDDD:0~32767)
W	ZR	HHHHHH	0 ~ fe7ff	File Register

## Wiring Diagram:

Use the RS422 to RS232 PLC programming cable (shown as follows)

mitsubishi QnA Series CPU



**Note:** Due to hardware limitations, this PLC is not supported by HMI models without RTS/CTS.

## Diagram 1

### RS-232

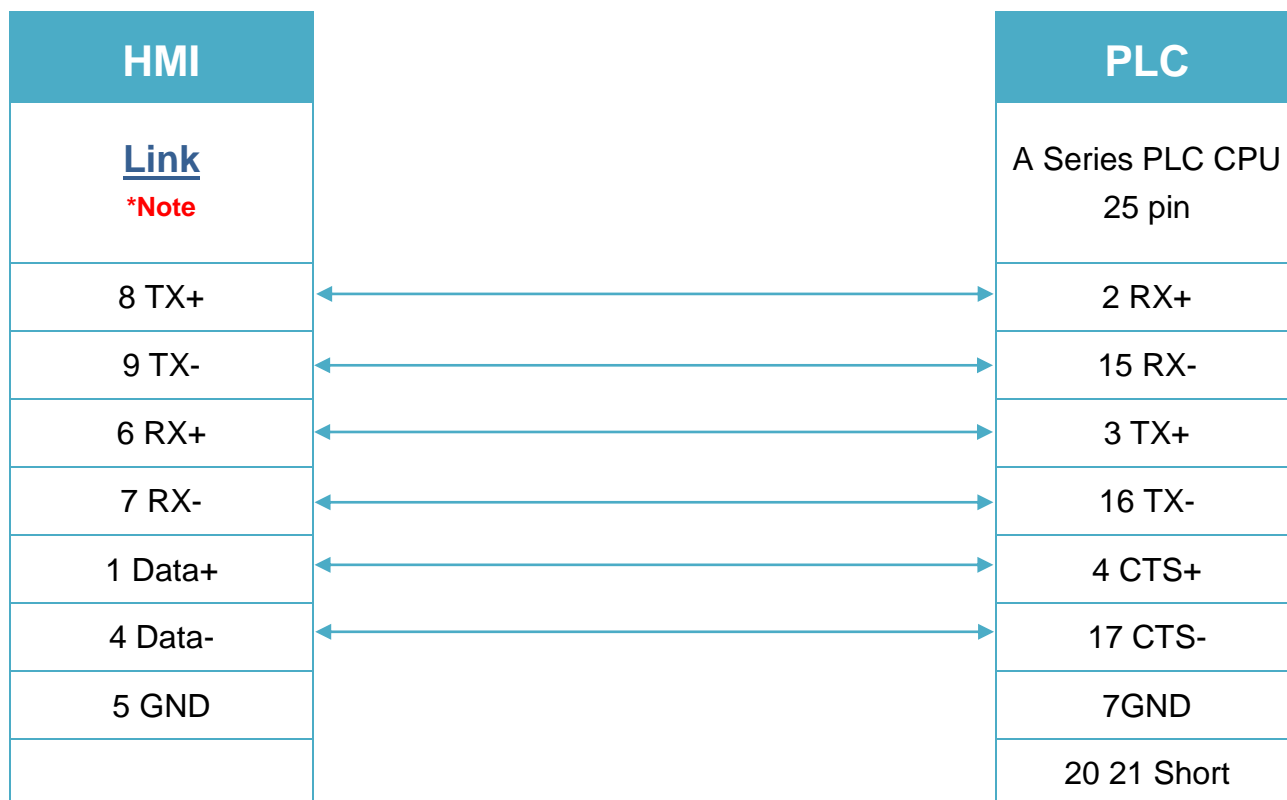
The serial port pin assignments may vary between HMI models, please click the following link for more information.

HMI	PLC Programming Converter		PLC
<a href="#">Link</a>			RS422 25P D-Sub Male
Rx	TX	TX+	2 RX+
Tx	RX	RX+	3 TX+
GND	GND	DTR+	4 DSR+
RTS	CTS	GND	7 GND
CTS	RTS	TX-	15 RX-
		RX-	16 TX-
		DTR-	17 DSR-

## Diagram 2

### RS-485 4W

The serial port pin assignments may vary between HMI models, please click the following link for more information.



\*Note:

The following models/ os versions support RS-485 4W communication:

HMI Model	OS Version
cMT-G01/G02	20200108/20200117
cMT-SVR 100/200	2020304
cMT-FHDX-820/920	upcoming release
cMT-SVRX-830/930	upcoming release