

WEINTEK LABS., INC.

# HMI Pin Assignment

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## 1. Overview

This user manual lists the pin assignment tables of the HMI models as an additional reference in Device (PLC) Connection Guide for users to see how to connect their HMI with devices (PLC).

## 2. Pin Assignment

### 2.1. iP Series

#### 2.1.1. MT6051iP / MT8051iP / MT8052iP / MT8052iP (V1e)

COM1 [RS232] / COM1 [RS485], COM3 [RS485], 9 Pin, Male, D-sub

PIN#	COM1 [RS485]		COM1 [RS232]	COM3 [RS485]
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			TxD	
7				Data-
8				Data+
9			RxD	

#### 2.1.2. MT6071iP / MT8071iP / MT8071iP2 / MT8072iP / MT8072iP (V2e)

COM1 [RS232], COM2 [RS485] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM2 [RS485]	
		4 wire	2 wire
1		Rx-	Data-
2		Rx+	Data+
3		Tx-	
4		Tx+	
5	GND		
6	TxD		
7	RTS		
8	CTS		
9	RxD		

## HMI Pin Assignment

### 2.1.3. MT6103iP / MT8102iP / MT8106iP / MT8106iP (V2)

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

COM2 [RS485], COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			Data-
7			
8			
9			Data+

## 2.2. iE Series

### 2.2.1. MT8050iE / MT8051iE / MT8053iE

COM1 [RS232], COM1 [RS485], COM3 [RS485], 9 Pin, Male, D-sub

PIN#	COM1 [RS485]		COM1 [RS232]	COM3 [RS485]
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			TxD	
7				Data-
8				Data+
9			RxD	

### 2.2.2. MT6070iE / MT8070iE / MT8100iE

COM1 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]
1	
2	RxD
3	TxD
4	
5	GND
6	
7	RTS
8	CTS
9	

COM1 [RS485], COM3 [RS485], 9 Pin, Female, D-sub

PIN#	COM1 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			
7			Data-
8			Data+
9			GND

## HMI Pin Assignment

### 2.2.3. MT6071iE / MT8071iE / MT8101iE

COM1 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]
1	
2	RxD
3	TxD
4	
5	GND
6	
7	RTS
8	CTS
9	

COM2 [RS485], COM3 [RS485], 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			Data-
7			
8			
9			Data+

### 2.2.4. MT8073iE

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

## HMI Pin Assignment

COM2 [RS485], COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			Data-
7			
8			
9			Data+

### 2.2.5. MT8102iE / MT8103iE

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

COM1 [RS485], COM2 [RS485]. COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM1 [RS485]	COM2 [RS485]		COM3 [RS485]	
		2 wire	4 wire	2 wire	4 wire
1		Data-	Rx-		
2		Data+	Rx+		
3			Tx-		
4			TX+		
5	GND				
6				Data-	Rx-
7	Data-				Tx-
8	Data+				TX+
9				Data+	Rx+

## 2.3.eMT Series

### 2.3.1. eMT3070 / eMT3105 / eMT3120 / eMT3150

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9		

COM1 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM1 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

## HMI Pin Assignment

### 2.4.XE Series

#### 2.4.1. MT8090XE

COM1 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]
1	
2	RxD
3	TxD
4	
5	GND
6	
7	RTS
8	CTS
9	

COM2 [RS485], COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			Data-
7			
8			
9			Data+

#### 2.4.2. MT8091XE

COM1 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]
1	
2	RxD
3	TxD
4	
5	GND
6	
7	RTS
8	CTS
9	

## HMI Pin Assignment

COM2 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

### 2.4.3. MT8092XE

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9		

COM2 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

## HMI Pin Assignment

### 2.4.4. MT8121XE / MT8150XE

COM1 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]
1	
2	RxD
3	TxD
4	
5	GND
6	
7	RTS
8	CTS
9	

COM1 [RS485], COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM1 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			
7			Data-
8			Data+
9			GND

## 2.5. mTV Series

### 2.5.1. mTV-100

COM1 [RS232], COM2 [RS485], COM3 [RS485] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM2 [RS485]		COM3 [RS485]
		2 wire	4 wire	
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			TX+	
9			Tx-	

## 2.6. cMT Series

### 2.6.1. cMT3071 / cMT3072 / cMT3090 / cMT3103

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9		

COM2 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

## 2.6.2. cMT3151

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9		

COM1 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM1 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

## 2.6.3. cMT-SVR-100 / cMT-SVR-100 (V2) / cMT-SVR-200 / cMT-SVR-200 (V2) / cMT-HDM / cMT-FHD

COM1 [RS232], COM2 [RS485], COM3 [RS485] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM2 [RS485]		COM3 [RS485]
		2 wire	4 wire	
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			TX+	
9			Tx-	

## 2.7. cMT X Series

2.7.1. cMT3072X / cMT3072X2 / cMT3072X2 (V2) / cMT3072XH / cMT3072XH2 / cMT3072XH2 (V2) / cMT3072XHT / cMT3072XHT (V2) / cMT3072XP / cMT3072XP (V2) / cMT3092X / cMT3092X (V2) / cMT3102X / cMT3102X (V2) / cMT3102X (R) / cMT3108XH / cMT3108XP / cMT3218XP

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

COM2 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

2.7.2. cMT1106X / cMT2078X / cMT2078X (V2) / cMT2102X / cMT2108X / cMT2108X2 / cMT2108X2 (V2) / cMT2128X / cMT3072XH3

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

COM2 [RS485], COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM2 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			Data-
7			
8			
9			Data+

### 2.7.3. cMT3152X / cMT3152X (V2) / cMT3162X / cMT3162X (V2)

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

COM1 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM1 [RS485]		COM3 [RS485]	CAN Bus
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

### 2.7.4. cMT2158X / cMT2158X (V2) / cMT2166X / cMT2168X / cMT3161X

COM1 [RS232], COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

COM1 [RS485], COM3 [RS485], CAN Bus, 9 Pin, Female, D-sub

PIN#	COM1 [RS485]		COM3 [RS485]
	4 wire	2 wire	
1	Rx-	Data-	
2	Rx+	Data+	
3	Tx-		
4	TX+		
5	GND		
6			Data-
7			
8			
9			Data+

### 2.7.5. cMT2058XH

COM1 [RS232], COM1 [RS485], COM3 [RS485], 9 Pin, Male, D-sub

PIN#	COM1 [RS485]		COM1 [RS232]	COM3 [RS485]
	4 wire	2 wire		
1	Rx-	Data-		
2	Rx+	Data+		
3	Tx-			
4	TX+			
5	GND			
6			TxD	
7				Data-
8				Data+
9			RxD	

## HMI Pin Assignment

### 2.7.6. cMT-SVRX-820 / cMT-FHDX-220 / cMT-FHDX-820

COM1 [RS232], COM2 [RS485], COM3 [RS485] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM2 [RS485]		COM3 [RS485]
		2 wire	4 wire	
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			TX+	
9			Tx-	

## 2.8. Ilot Gateway Series

### 2.8.1. cMT-G01 / cMT-G01X / cMT-G02 / cMT-G02X / cMT-CTRL01

COM1 [RS232], COM2 [RS485], COM3 [RS485] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM2 [RS485]		COM3 [RS485]
		2 wire	4 wire	
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			TX+	
9			Tx-	

### 2.8.2. cMT-G03

COM1 [RS232 ; RS-485], COM2 [RS232 ; RS-485],

PIN#	COM1 [RS232]	COM2 [RS232]	PIN#	COM1 [RS485]		COM2 [RS485]	
				4 wire	2 wire	4 wire	2 wire
1	RxD1		2	Rx1-	Data1-		
3	TxD1		4	Rx1+	Data1+		
5	FG		6	Tx1-			
7	GND		8	Tx1+			
9		RxD2	10			Rx2-	Data2-
11		TxD2	12			Rx2+	Data2+
13		FG	14			Tx2-	
15		GND	16			Tx2+	

