Human Machine Interface

Features

1. Maxtech SCADA human-machine editing software allows you to easily make an editing plan and meet different operational requirements.
2. 7.0 inch to 12.1 inch HMI.
3. Simple planning process.
4. Intuitive design concept.
5. Numerous operation objects.
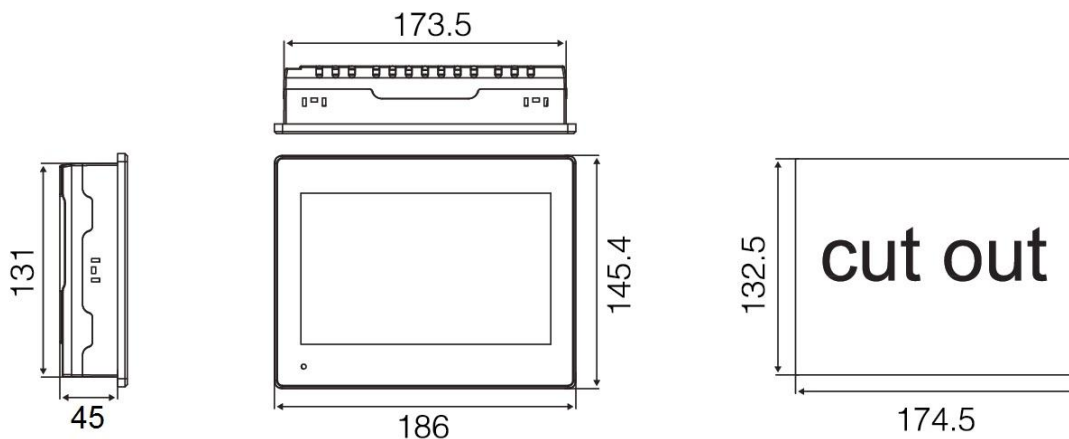6. Greatly increase design efficiency.

Standard Specification

Item	MT070-WAT	MT070-WST	MT080-TNT	MT104-TNT	MT121-TNT
Products					
Display Type	TFT LCD				
Colors	65535 colors				
Backlight	LED (20,000 hours)		LED (50,000 hours)		CCFL x 2 (50,000 hours)
Display Brightness	300 cd/m^2		350 cd/m^2~450 cd/m^2		
Resolution	800x480		800x600		
View Size	7.0"		8.0"	10.4"	12.1"
Operation	Touch type				
Text Range	6x8 dot font~96x96 dot font / Windows internal font				
CPU	RISC 32 bit / 2D graphic engine		RISC 32 bit		
Flash Memory	16MB	8MB	16MB (Standard) / 64MB (Option)		
Battery Backup Memory	128KB / 1MB (Option)				
System Working Memory	64MB				64MB SDRAM (max.128MB)
Serial Ports	COM1/COM2：RS232/422/485	COM1：RS232/422/485 COM2：RS232/485 or option COM3：RS232	COM1/COM2：RS232/422/485		
Ethernet Port	Yes (10/100M)	Option	Yes (10/100M)		
USB Ports	For USB card use x 1(S)	For HMI download use x1(M) For USB card use x 1(S)			
Micro SD	×	Option	×		
Audio	Option	×			

Power Connector	DC20V~DC28V				
Power Consumption	10W	15W	20W		
Operating Temp.	0°～50℃ (32°～120°F)				
Relative Humidity	10%~90%RH；0°~50°C, non-condensing				
Shock (Operation)	10 to 55Hz (X, Y, Z direction 1G 30 minutes)				
EMI	Complies with FCC part 15 class A				
CE	Complies with EN61000-6-2, EN61000-6-4		Complies with EN55022, EN61000-4-2, EN61000-4-3, EN61000-4-8		
Front Panel	Meets NEMA4 / IP65				
Cooling	Natural cooling				
Dimensions (WxHxD) Unit：mm	186.0x145.4x 45.0	203.5x148.5x 40.0	232.5x175.8x 49.0	297.0x224.0x 52.0	315.0x241.0x 54.5
Cutout Dimensions (WxH) Unit：mm	174.5x132.5	191.0x137.5	221.5x164.0	285.5x210.5	301.5x228.0
Net Weight	0.65kg	0.60kg	1.15kg	1.55kg	2.20kg
Certifications	CE, FCC approved				

External Dimension

MT070-WAT

173.5

131

45

145.4

186

132.5

cut out

174.5

Unit: mm

MT070-WST

191

136.5

148.5

137.5

cut out

40

203.5

191

Unit: mm

MT080-TNT

220.4

163.4

175.8

164

cut out

49

232.5

221.5

Unit: mm

MT104-TNT

285

21

224

210.5

cut out

52

297

285.5

Unit: mm

MT121-TNT

301

227

241

228

cut out

54.5

315

301.5

Unit: mm

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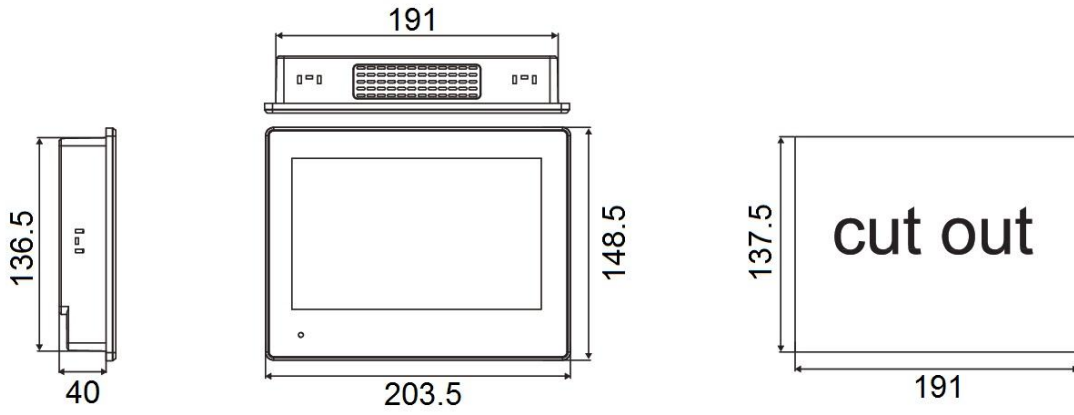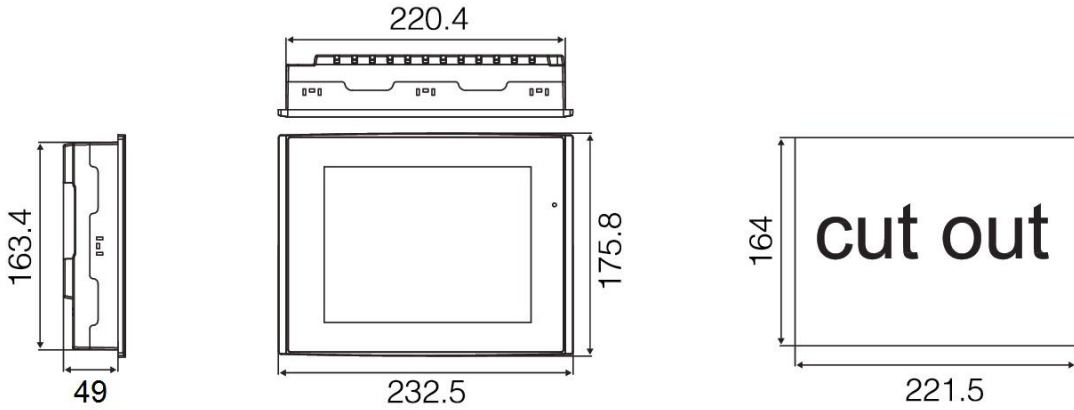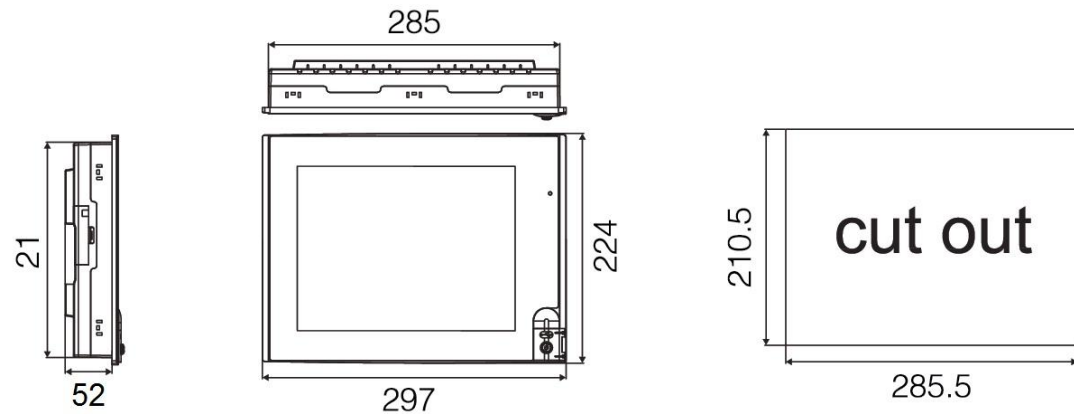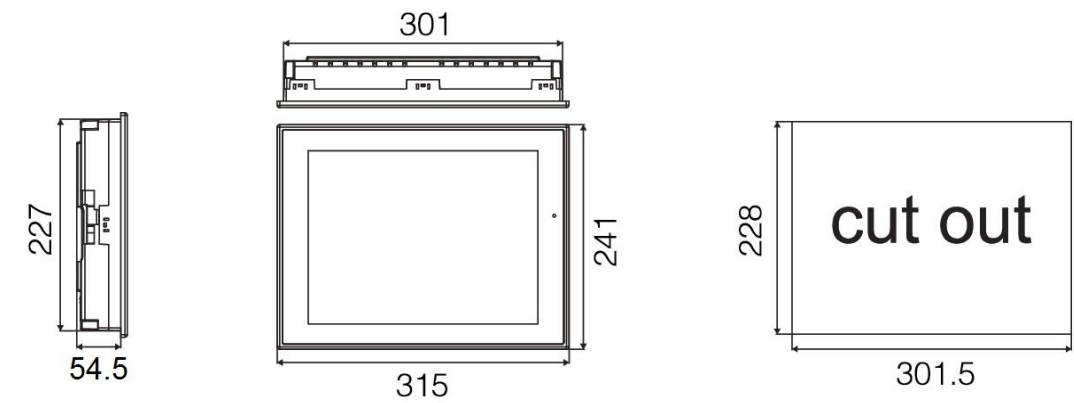
Introduction of SCADA Software

I / O List

Objecct Library

Project Manager

Object List

Screen Overview

Maxtech SCADA directly executes in PC for monitoring

1. By USB key (to be charged), the users can directly run the program in PC, for what are edited by Maxtech SCADA.
2. Supporting access, My SQL, SQL
3. Unlimited I/O numbers.

PLC1   PLC2   PLC3
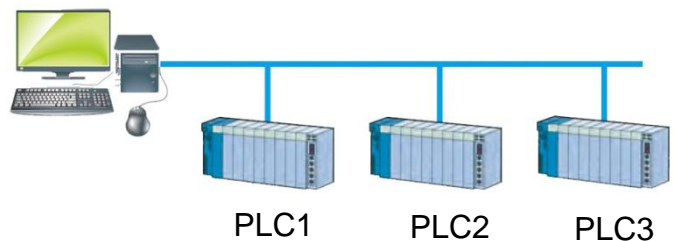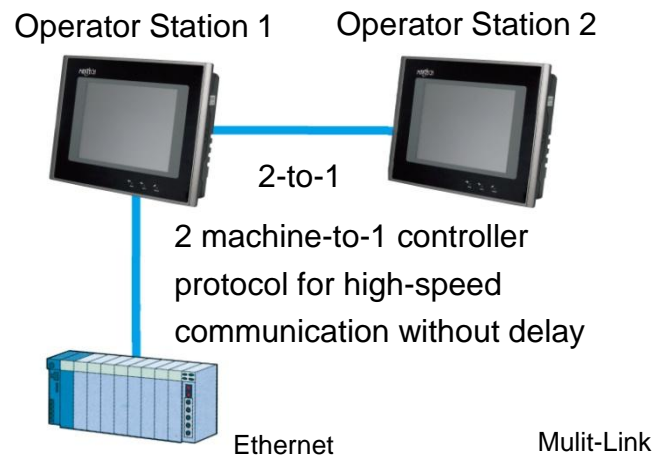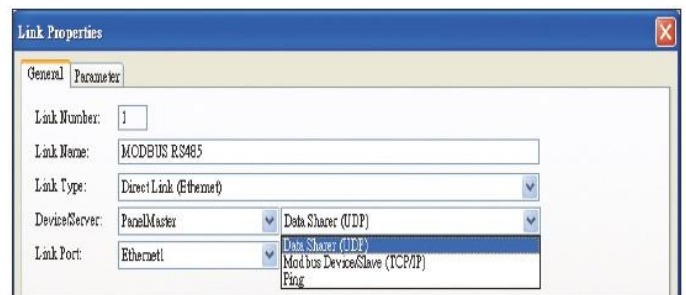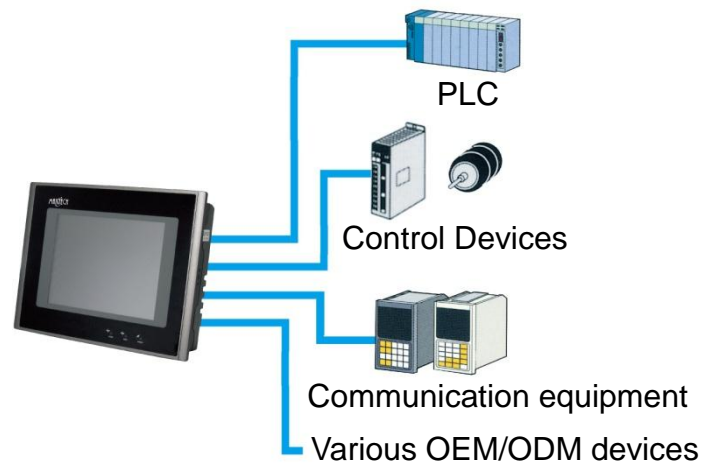
Maxtech SCADA executes in HMI for monitoring

1. Maxtech SCADA software provides the strongest functions for programming engineers. (free of charge)
2. Software interface is available in traditional Chinese, Simply Chinese and English.
3. Free of charge for designing driver.

Update/Download

PLC1   PLC2   PLC3
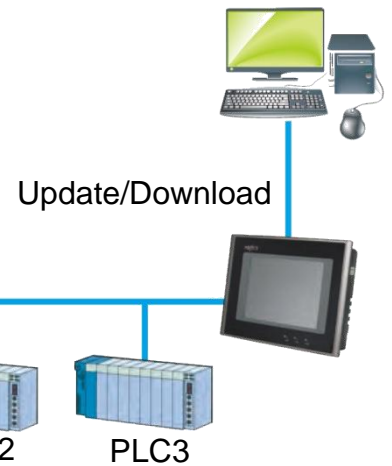
A variety of communication modes, offering customer freedom of choice, user-friendly products

Various forms of interface, serial communication RS232; RS422; RS485; Ethernet port, flexible with mixed connection mode, able to simultaneously conduct direct or indirect communication with multiple controllers.
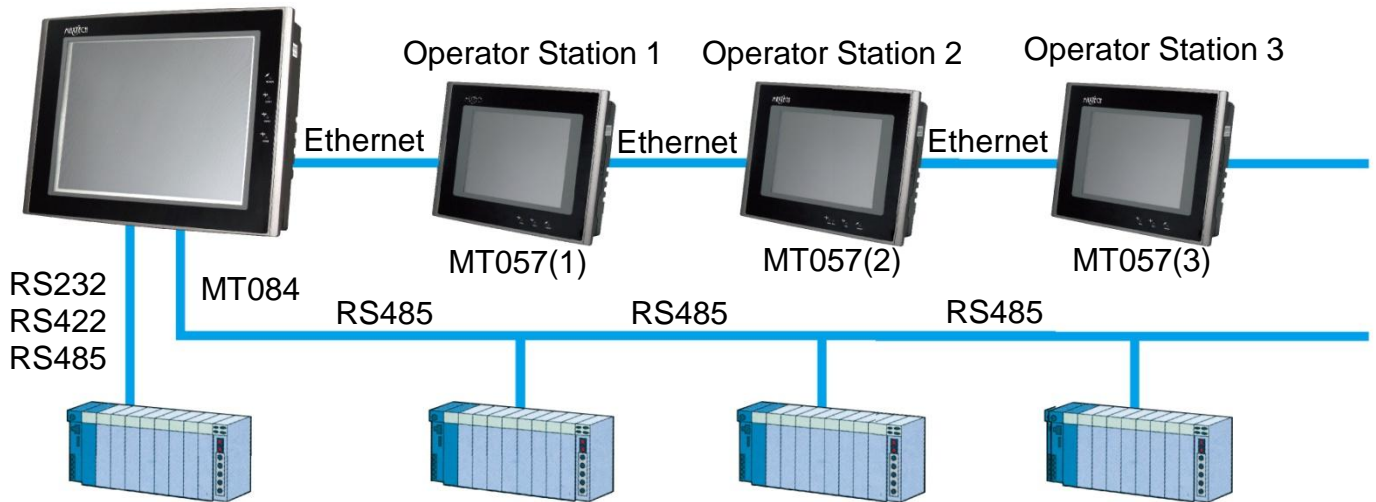
- (Serial 1:1), a human-machine with a controller or (serial 2:2) a human-machine with two different controllers in series
- (Serial port 1: n; Multi-drop) multiple human-machine (RS485) through a host human-machine with a master controller, for multiple-to-one communication.
- (Serial n: 1; Multi-link) multiple human-machine of a serial (RS485) with a controller.
- Specially developed two (human-machine) to one (controller) protocol, allowing faster communication; master and slave show different screens, can simultaneously switch and operate controller. Maxtech SCADA only needs simply setup for master and slave to share resources.
- (Ethernet port 1: n) human-machine of one network port (Ethernet) with multiple controllers.
- (Ethernet port 1:1) human-machine of one network port (Ethernet) with host PC, and

PLC

Control Devices

Communication equipment

Various OEM/ODM devices

Operator Station 1   Operator Station 2

2-to-1

2 machine-to-1 controller protocol for high-speed communication without delay

Ethernet   Mulit-Link

a controller in series; thus, host PC can
conduct data sampling.
- Network port (Ethernet) data sharing mode
  Data Sharer uses UDP protocol for
  connecting up to 16 MT product units for
  high-speed real-time data sharing.
- Through expansion module (Profibus DP
  bus, CANBus, etc.), connect to a variety of
  field bus network.

Primary operating station

Operator Station 1   Operator Station 2   Operator Station 3

Ethernet   Ethernet   Ethernet

MT057(1)   MT057(2)   MT057(3)

RS232
RS422   MT084
RS485   RS485   RS485   RS485

Contact

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