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IoT Gateway Human Machine Interface

- IDCS
- Remote Solution
- IoT Gateway
- HMI
- PM Designer 4.0
- PanelExpress 4.0

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Cermate
The HMI Solutions and IoT Gateways Provider.

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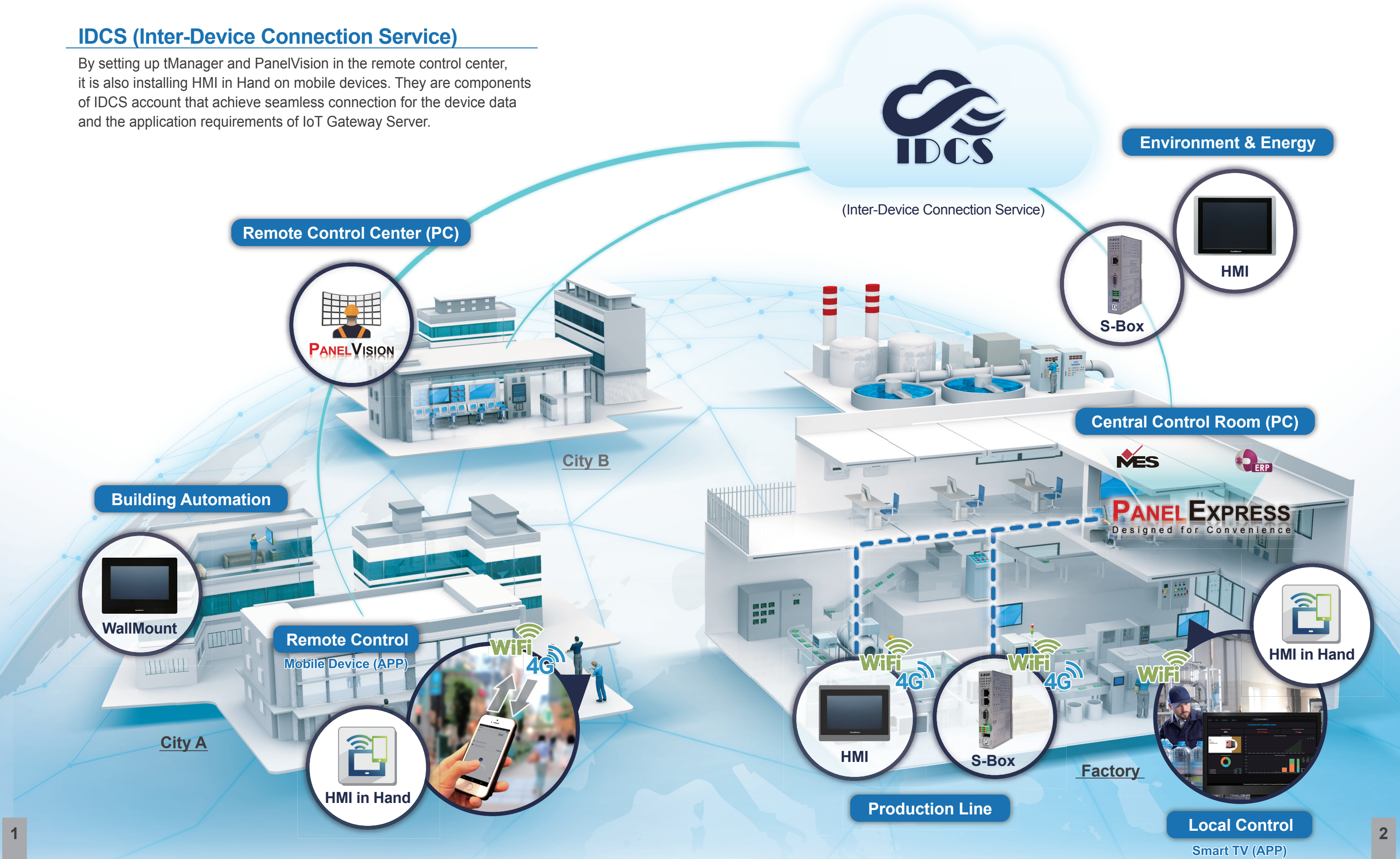
Cermate
The HMI Solutions and IoT Gateways Provider

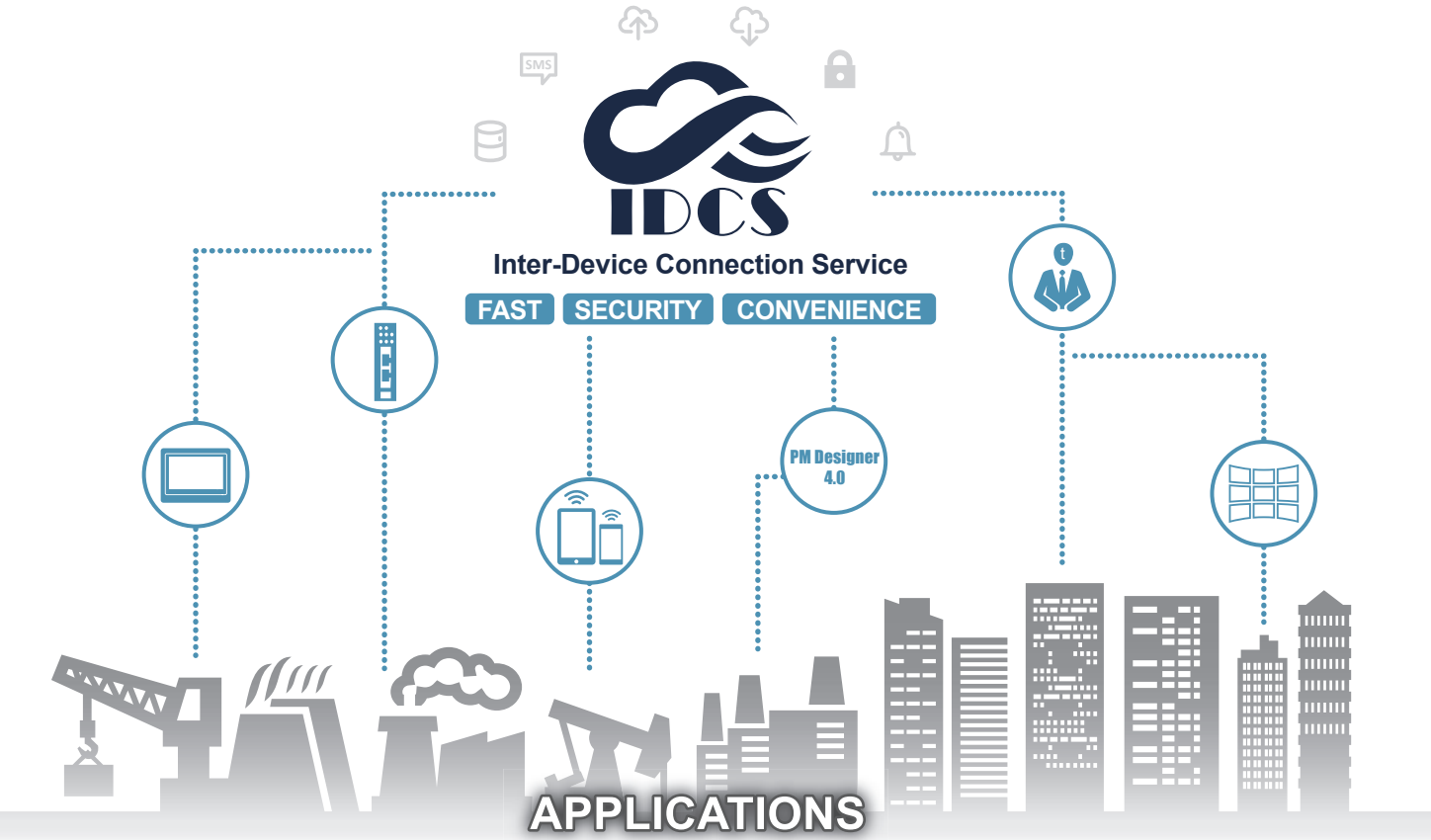


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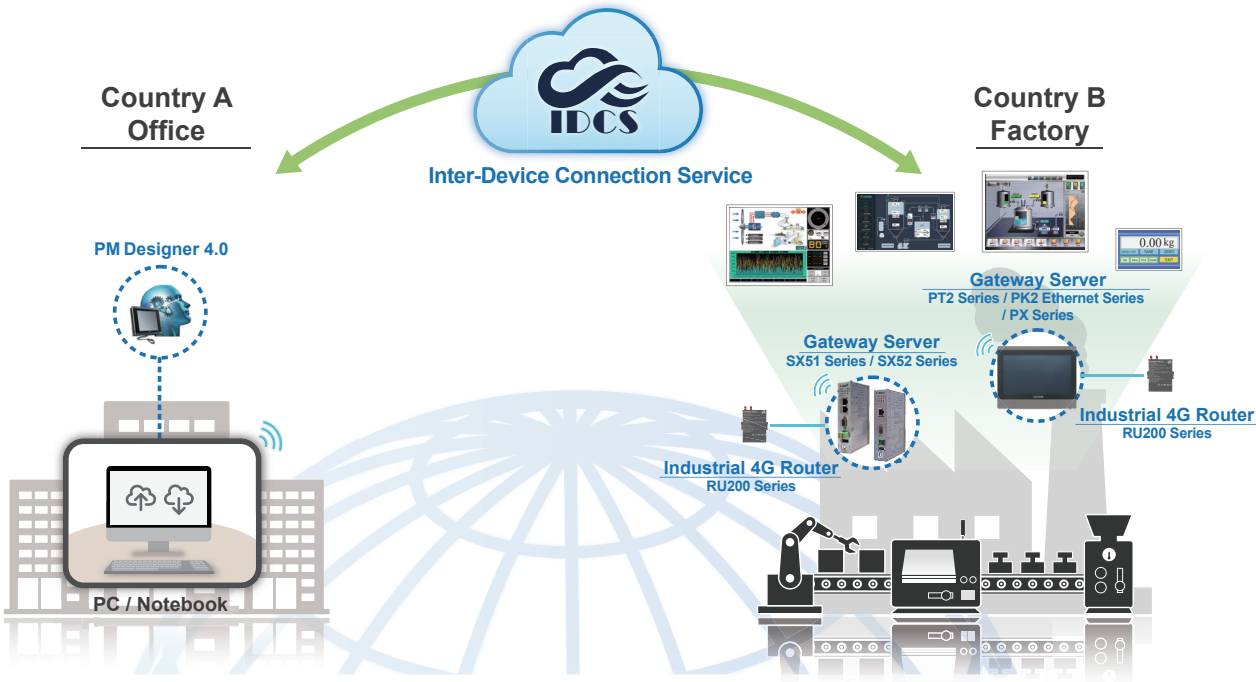
IDCS (Inter-Device Connection Service)

By setting up tManager and PanelVision in the remote control center, it is also installing HMI in Hand on mobile devices. They are components of IDCS account that achieve seamless connection for the device data and the application requirements of IoT Gateway Server.

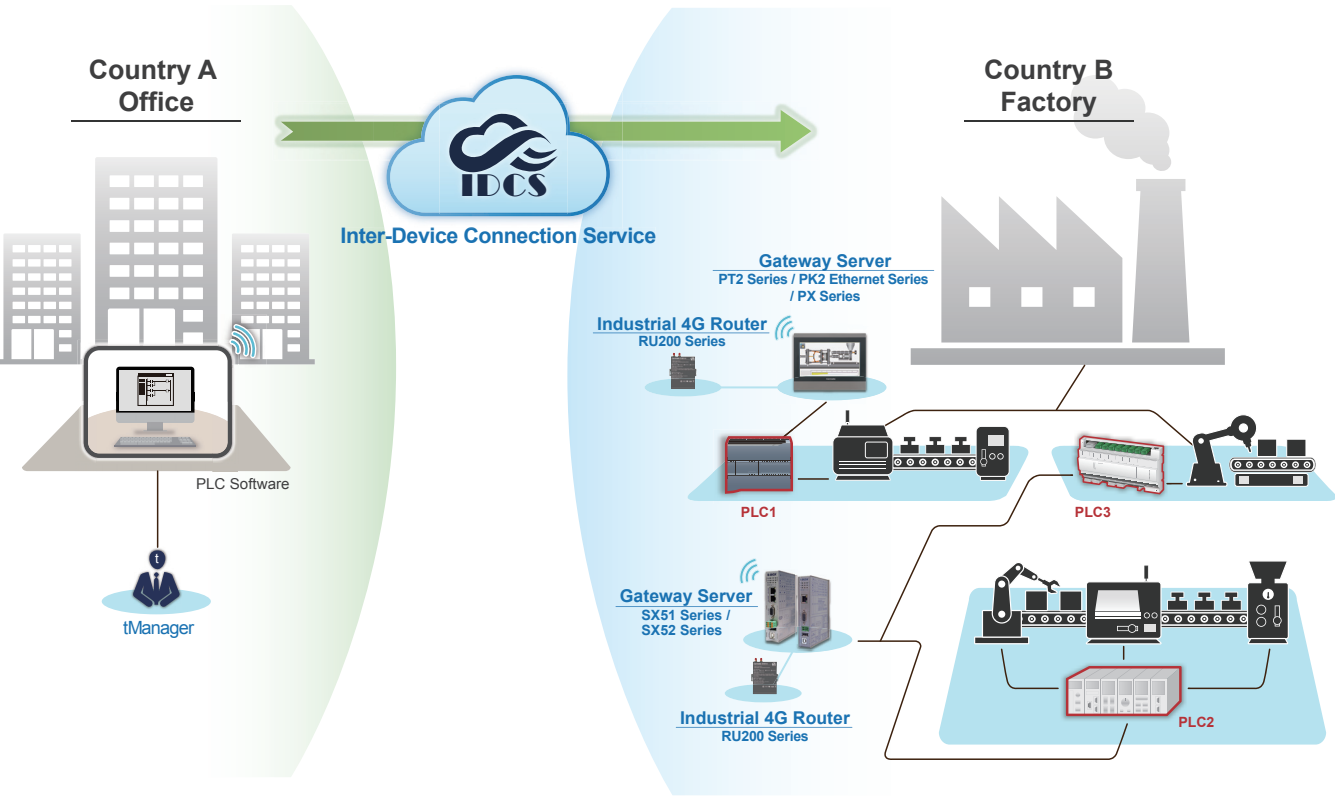




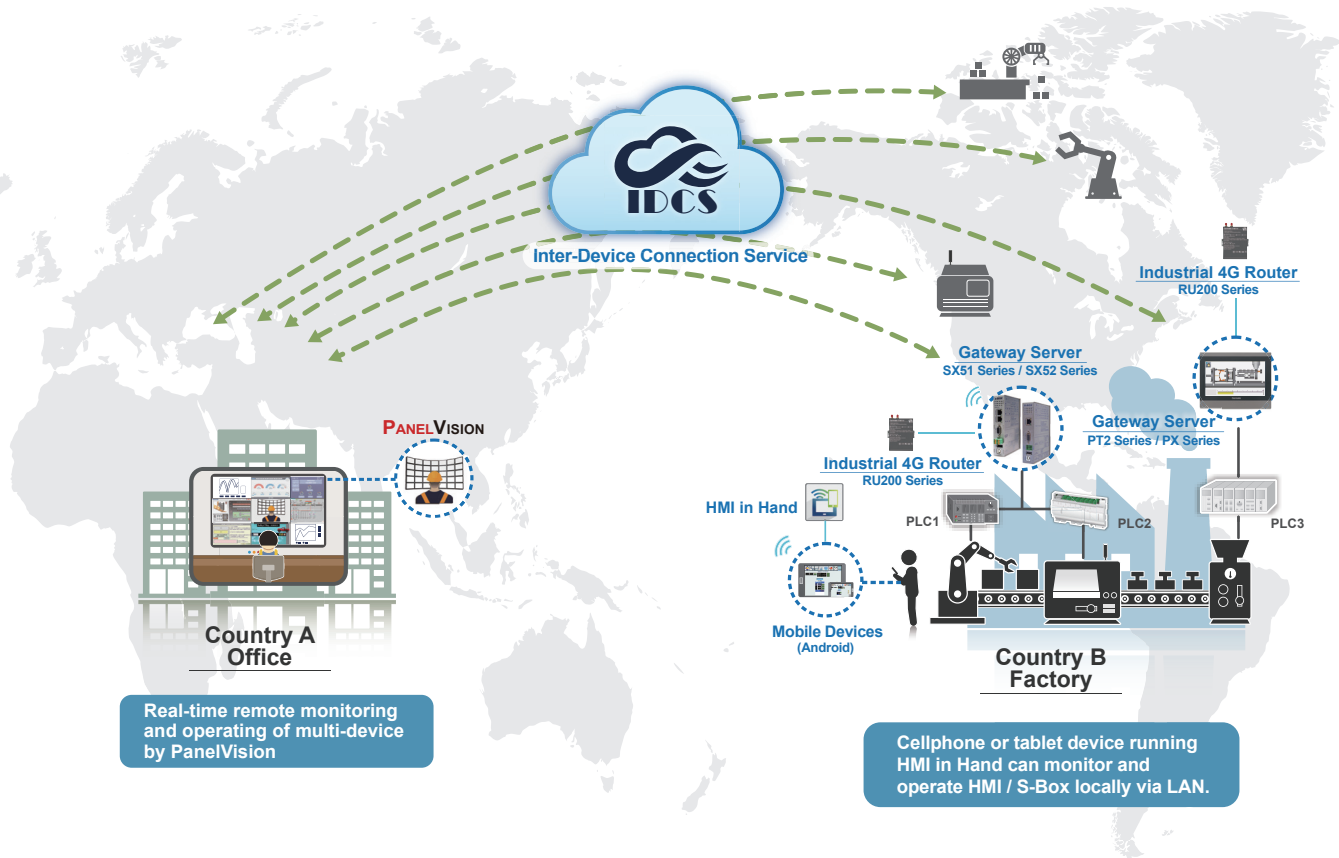
Remote update and upload/download program



Remote PLC program management through transparent function

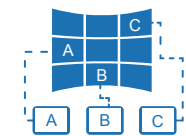
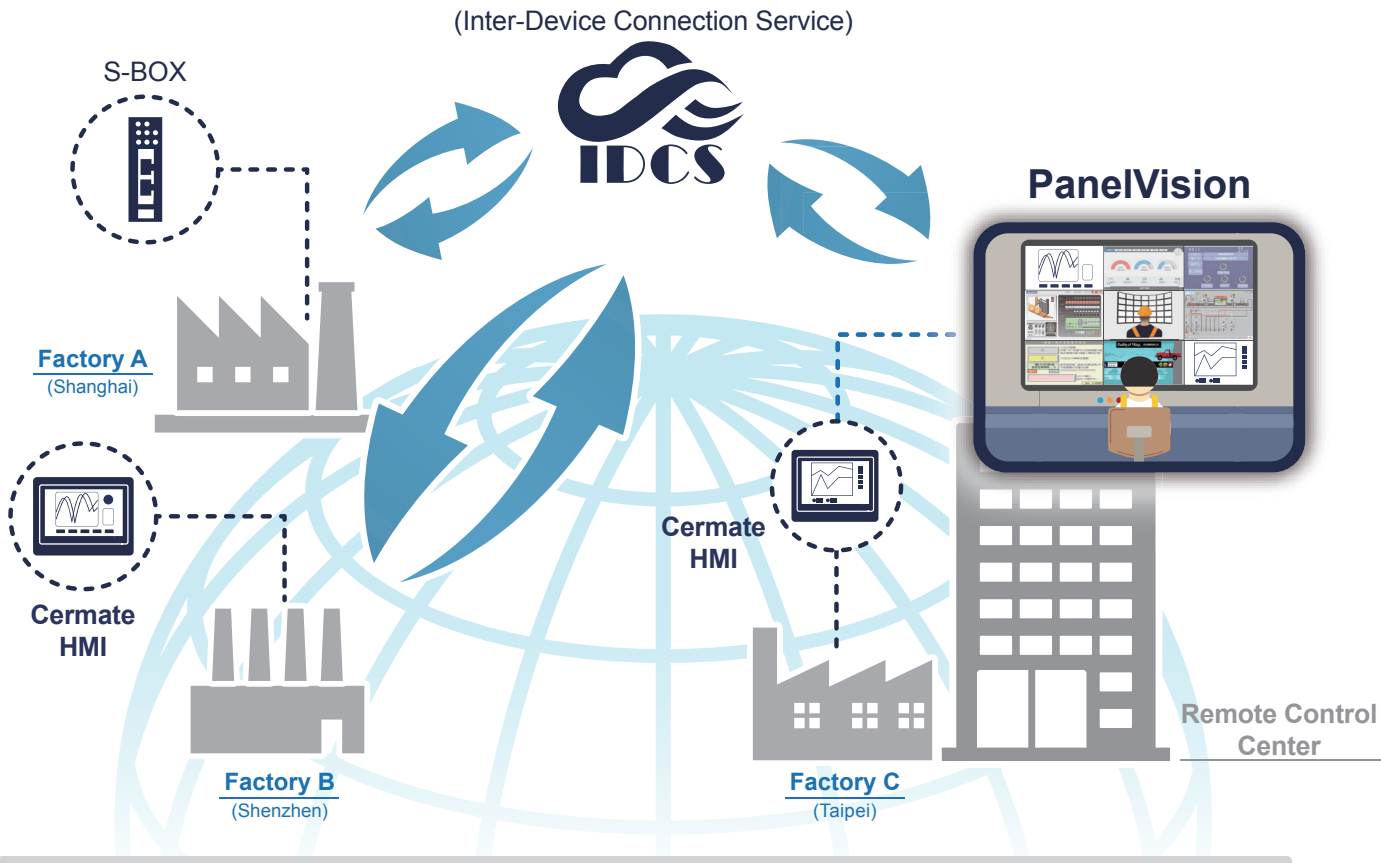


Monitoring and operating devices

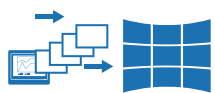




Remote Devices Controlling & Monitoring
Data Management Software



Real-time multi-screen data collection



Display different screens from the same HMI on multiple windows



Easy-to-Use
Support local devices and multiple IDCS accounts connection at the same time



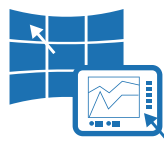
Displays screens individually, zoom in and out and full screen



Security & Efficient data collection



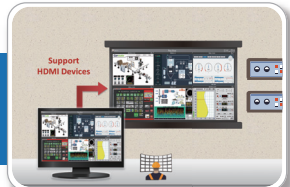
Database Visualization & Intuitive analysis



Monitor and set Data for each device

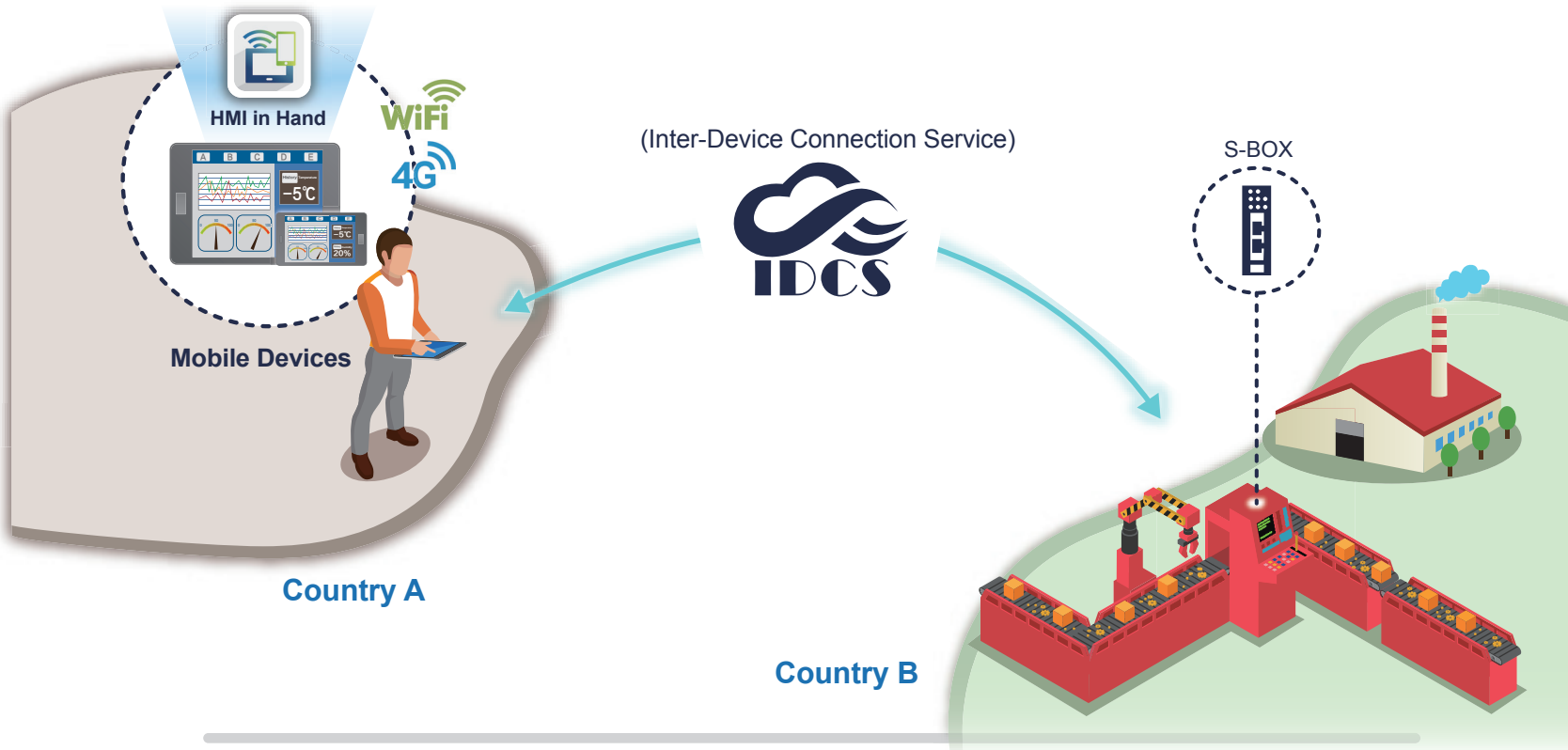


Features



HMI in Hand

Mobile Devices Controlling & Monitoring
Android & iOS Application



Security & Efficient data collection



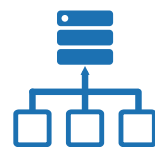
Easy-to-Use
Support local devices and multiple IDCS account connection at the same time



Suitable for Android system mobile device



Database Visualization & Intuitive analysis



Collecting data instantly



Monitor and set Data from a device



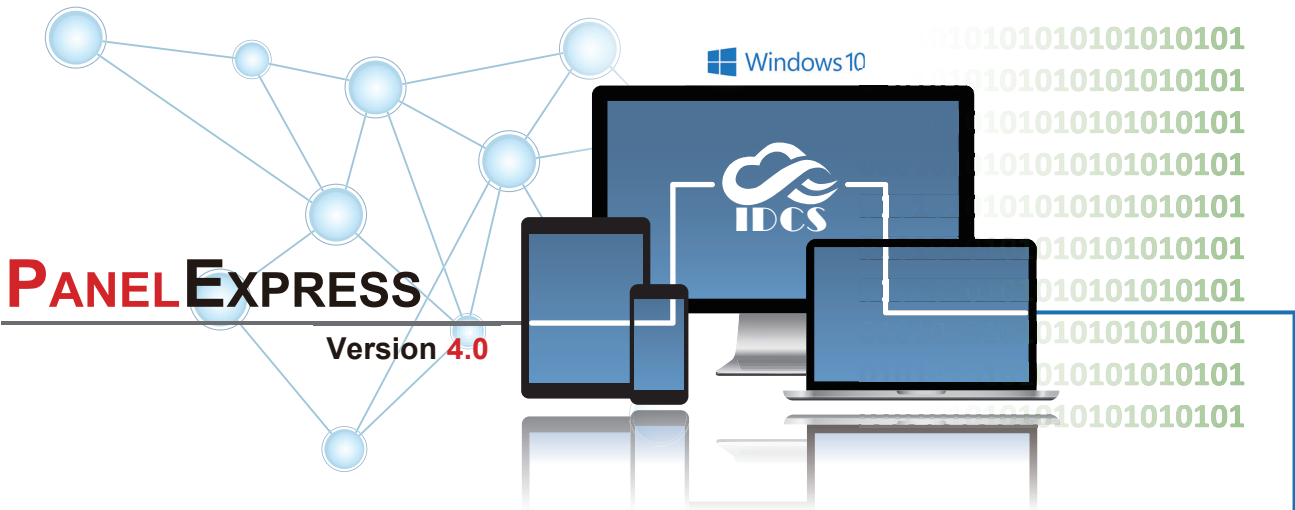
Features







HMI Runtime Software - PANEL EXPRESS 4.0


PanelExpress is a Windows based HMI runtime. It enables you to utilize the resources of a PC, giving you computation power, multimedia, and bigger screens, to realize a high-end sophisticated HMI. Now the released version for Windows OS can be used on PC. Thanks to the cross platform flexibility offered by PanelExpress, switching hardware for performance becomes an easy job.





General Features


- 


Cost effective Windows based HMI runtime
- 


Supports IDCS
- 

Built-in MQTT Client
- 

Provides a complete set of useful macro commands. Macro programs can be embedded in object, screens, and the global process
- 


Over 2000 screen objects can fulfill all types of HMI operating and viewing needs for machine automaton
- 


Supports VB Script and Microsoft JavaScript
- 


Supports My SQL ; SQL ; Access and Oracle
- 


Database Visualization


Optional / Advanced Features

- 

Provides Excel/PDF report generator
- 

OPC Server
OPC Client
- 

HMI Server
HMI Client
- 

3rd party containers function
Supports Internet Explorer / Chromium and Firefox Browser / Media Player / AutoCAD DWG Viewer
- 

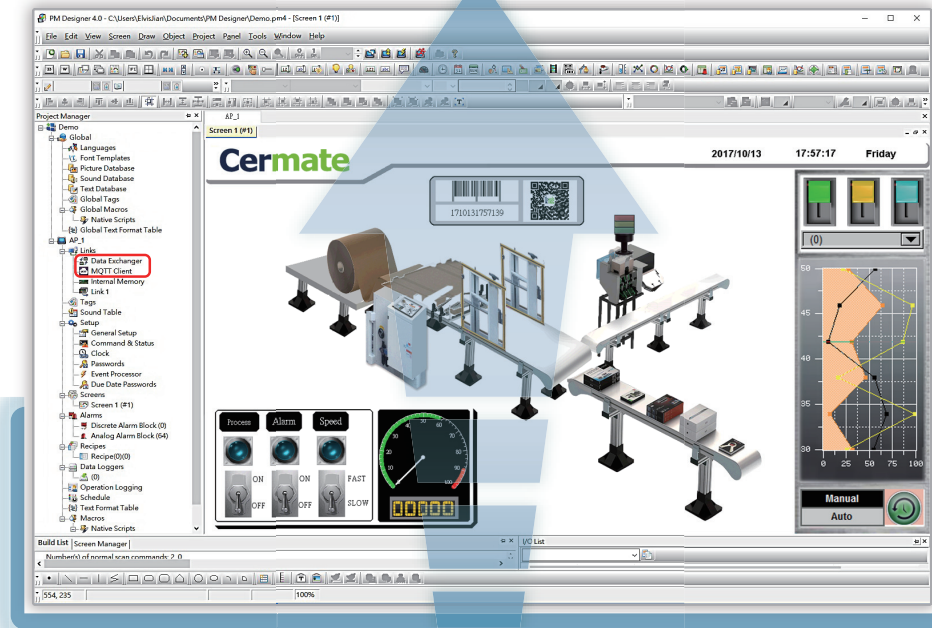
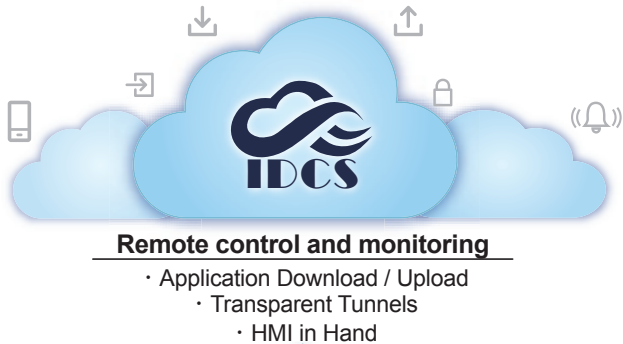
Multi window display



HMI Development Software - PM Designer 4.0



PM Designer is proven in many application fields and is an easy to use integrated development tool featuring solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, recipes, alarms, data loggers and operation logging. PM Designer also includes online/offline simulation and other utility programs such as recipe editors and text editors. The newest PM Designer 4.0 is designed for IIoT, also supports remote data collection and transmission, like our IDCS(Inter-Device Connection Service) and MQTT protocol. PanelMaster runtime, a part of PM Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, sub-second screen switching, and 24/7 operation.




- 

E-Mail

Sending alarm & Notifications
- 


Security


Password & Due date password
- 

Multilanguage


One application supports up to 30 languages
- 


Two-Dimensional Barcode

Barcode / QR Code
- 

HMI Server / Client
- 

Mobile Phone Message

SMS
- 

MQTT
- 

Gateway Service

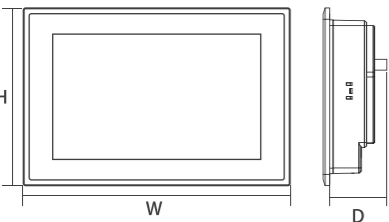
Data Exchanger

PX Series

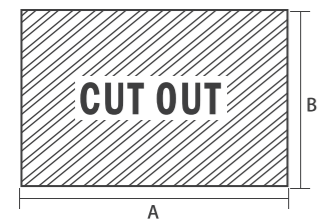


Model Name		PX070-WST	PX080-TST	PX104-TST	PX121-XSD	PX150-XSD
Sub-models		4 / 5 / 6	4 / 5 / 6	4 / 5 / 6	4 / 5 / 6	4 / 5 / 6
LCD Display	Size	7" diagonal	8" diagonal	10.4" diagonal	12.1" diagonal	15.0" diagonal
	Max. Resolution	800*480	800*600	800*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight				
	Max. Colors	16-bit				
	Backlight Life (hr)	20,000			50,000	
	Display Contrast	500	500	400	700	700
	Luminance (cd/m2)	300	250	400	500	350
Touch Panel		4-wire Analog Touch Panel			5-wire Analog Touch Panel	
CPU		RISC ARM11 800HMz				
Battery Backup SRAM		1MB				
Working Memory		256MB				
Application Memory		1GB				
Real-Time Clock (RTC)		YES				
Max. Pogramming Pages		7999 Pages				
Max. Macro Commands		Unlimited				
Communication Interface	Micro SD Slot	YES				
	USB Host	YES (USB1.1)				
	USB Client	YES (USB2.0)				
	Serial (Com1)	RS232/422/485				
	Serial (Com2)	A-RS422/485 or B-RS232/485 or C-RS232 with RTS&CTS				
	Serial (Com3)	RS232 only (Optional: RS485 only)				
	Serial (Com4)	Sub Model 6: RS422/RS485 (Isolated)				
	Serial (Com5)	N/A				
	Ethernet	YES				
Front Function Keys		N/A				
Audio out (optional)		Sub Model 5&6: YES				
Video in (optional)		Sub Model 6: YES (With an analog color camera)				
Front USB Host Port		N/A				
Power	Supply Voltage	24VDC ±10% (Isolated)				
	Consumption	20W				
Environment	Operating Temperature	-25°C~70°C				
	Relative Humidity	10%~90%				
	Shock (operation)	Half sine, 20G, 11ms duration				
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)				
	FCC	YES				
	CE	EN61000-6-2, EN61000-6-4				
	UL Certification	UL508				
	Ingress Protection	IP66				
	Cooling	Natural Cooling				
Dimension WxHxD (mm)*		213.6 x 158.6 x 51	241.6 x 184.6 x 56.2	280.3 x 222.3 x 56.5	317.4x x 243.8 x 72.2	399.1 x 297.6 x 71.5
Cutout Dimension WxH (mm)		191.5 x 137.5	221 x 163.5	259.5 x 201.5	302 x 228	384.5 x 283
Net Weight (Kg)		0.61	1.1	1.41	2.2	3

Outlet Dimension



Cut Out Dimension



Naming Rule

PX 070 – W S T 4 B – U 5 R 4 C00

Model Name
PX PX-Series

Resolution
T 800x600
W 480x272/800x480
X 1024x768

LCD Size
070 7"
080 8"
104 10.4"
121 12.1"
150 15"

Operation
S Standard Mode
K Front Key + USB
U Front USB
X Extension Key
F Front Key

Mode
T 4-wises Touch
W Wall Mount
D 5-wises Touch
H Handheld (Black)
J Handheld (Orange)

Sub Model
4 1GB NAND Flash; RTC;
Micro SD Slot; Ethernet
5 4 + Audio Out
6 5 + Camera Module + COM4

Case Color & Material
F Plastic/ Silver-Black
B Black Color
G Thin Bright Aluminum
U Aluminum anodized
Dark Gray

COM2
A RS422/485
B RS232/485
C RS232(RTS/CTS)

COM3 Spec. & Temp.
R Plastic: COM3 RS232 (-10°C~60°C)
Alum.: COM3 RS232 (-20°C~60°C)
Q Plastic: COM3 RS485 (-10°C~60°C)
Alum.: COM3 RS485 (-20°C~60°C)
H Alum.: COM3 RS232 (-25°C~70°C)
G Alum.: COM3 RS485 (-25°C~70°C)

COM3 Spec. & Temp.
R Plastic: COM3 RS232 (-10°C~60°C)
Alum.: COM3 RS232 (-20°C~60°C)
Q Plastic: COM3 RS485 (-10°C~60°C)
Alum.: COM3 RS485 (-20°C~60°C)
H Alum.: COM3 RS232 (-25°C~70°C)
G Alum.: COM3 RS485 (-25°C~70°C)

BKRAM & Memory
4 1MB BKRAM

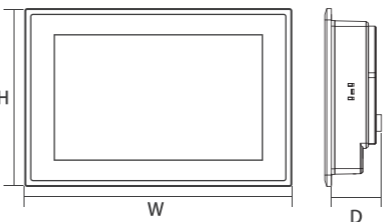
Touch & PCB Coating
3 Enhance PCB Coating
5 5V Codec Touch I.C.
6 12V Codec Touch I.C.

GX Series

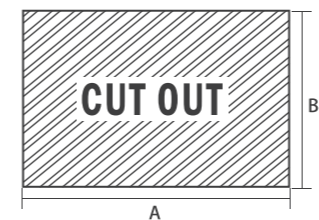


Model Name		GX607-WST	GX608-TST	GX610-TST	GX612-XSD	GX615-XSD
Sub-models		4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
LCD Display	Size	7" diagonal	8" diagonal	10.4" diagonal	12.1" diagonal	15.0" diagonal
	Max. Resolution	800*480	800*600	800*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight				
	Max. Colors	16-bit				
	Backlight Life (hr)	20,000			50,000	
	Display Contrast	500	500	400	700	700
	Luminance (cd/m2)	300	250	400	500	350
Touch Panel		4-wire Analog Touch Panel			5-wire Analog Touch Panel	
CPU		RISC ARM11 800HMz				
Battery Backup SRAM		1MB				
Working Memory		256MB				
Application Memory		1GB (64MB for Built-in WinCE V6.0 R3 OS)				
Real-Time Clock (RTC)		YES				
Max. Porgramming Pages		7999 Pages				
Max. Macro Commands		Unlimited				
Communication Interface	Micro SD Slot	YES				
	USB Host	YES (USB1.1)				
	USB Client	YES (USB2.0)				
	Serial (Com1)	RS232/422/485				
	Serial (Com2)	A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS				
	Serial (Com3)	RS232 only (Optional: RS485 only)				
	Serial (Com4)	N/A				
	Serial (Com5)	N/A				
	Ethernet	YES				
Front Function Keys		N/A				
Audio out (optional)		Sub Model 5: YES				
Video in (optional)		N/A				
Front USB Host Port		N/A				
Power	Supply Voltage	24VDC ±10% (Isolated)				
	Consumption	20W				
Environment	Operating Temperature	-25°C~70°C				
	Relative Humidity	10%~90%				
	Shock (operation)	Half sine, 20G, 11ms duration				
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)				
	FCC	YES				
	CE	EN61000-6-2, EN61000-6-4				
	UL Certification	UL508				
	Ingress Protection	IP66				
	Cooling	Natural Cooling				
Dimension WxHxD (mm)*		213.6 x 158.6 x 45.8	241.6 x 184.6 x 45.8	280.3 x 222.3 x 45	317.4 x 243.8 x 58.6	399.1 x 279.6 x 57.5
Cutout Dimension WxH (mm)		191.5 x 138	221 x 163.5	259 x 201	302 x 228	384.5 x 283
Net Weight (Kg)		0.61	1.1	1.41	2.2	3

Outlet Dimension



Cut Out Dimension



Naming Rule

GX 607 – W S T 4 B – U 5 R 4 C00

Model Name
GX GX-Series

Resolution
T 800x600
W 480x272/800x480
X 1024x768

LCD Size
607 7"
608 8"
610 10.4"
612 12.1"
615 15"

Operation
S Standard Mode
K Front Key + USB
U Front USB
X Extension Key
F Front Key

Mode
T 4-wises Touch
W Wall Mount
D 5-wises Touch
H Handheld (Black)
J Handheld (Orange)

Sub Model
4 1GB NAND Flash; RTC;
Micro SD Slot; Ethernet
5 4 + Audio Out

Case Color & Material
F Plastic/ Silver-Black
B Black Color
G Thin Bright Aluminum
U Aluminum anodized
Dark Grey

COM2
A RS422/485
B RS232/485
C RS232(RTS/CTS)

COM3 Spec. & Temp.
R Plastic: COM3 RS232 (-10°C~60°C)
Alum.: COM3 RS232 (-20°C~60°C)
Q Plastic: COM3 RS485 (-10°C~60°C)
Alum.: COM3 RS485 (-20°C~60°C)
H Alum.: COM3 RS232 (-25°C~70°C)
G Alum.: COM3 RS485 (-25°C~70°C)

COM3 Spec. & Temp.
R Plastic: COM3 RS232 (-10°C~60°C)
Alum.: COM3 RS232 (-20°C~60°C)
Q Plastic: COM3 RS485 (-10°C~60°C)
Alum.: COM3 RS485 (-20°C~60°C)
H Alum.: COM3 RS232 (-25°C~70°C)
G Alum.: COM3 RS485 (-25°C~70°C)

BKRAM & Memory
4 1MB BKRAM

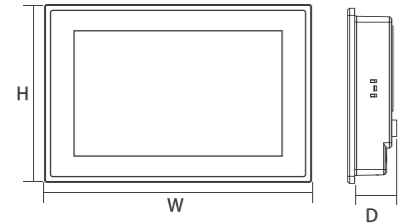
Touch & PCB Coating
3 Enhance PCB Coating
5 5V Codec Touch I.C.
6 12V Codec Touch I.C.

PT2 Series

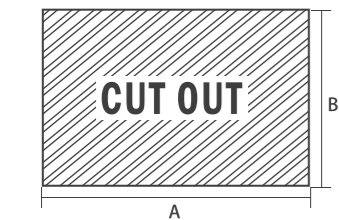


Model Name		PT2043-41ST	PT2070-51ST	PT2080-51ST
LCD Display	Size	4.3" diagonal	7" diagonal	8" diagonal
	Max. Resolution	480*272	800*480	800*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	20,000		
	Luminance (cd/m2)	400	400	250
Touch Panel		4-wire Analog Touch Panel		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1024KB)		
Working Memory		64MB		
Application Memory		About 40MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type, 5 years battery life)		
Max. Porgramming Pages		7999 Pages		
Max. Macro Commands		Unlimited		
Communication Interface	Micro SD Slot	N/A		
	USB Host	YES (USB2.0)		
	USB Client	YES (USB2.0)		
	Serial (Com1)	RS232 (5-Pin Terminal)	RS232 (DB9)	
	Serial (Com2)	RS485 (5-Pin Terminal)	RS422/485 (DB9)	
	Serial (Com3)	RS485 (5-Pin Terminal)	RS485 (DB9)	
	Serial (Com4)	RS485 (5-Pin Terminal)		
	Serial (Com5)	N/A	RS485 (5-Pin Terminal) / Optional:RS232(5-Pin Terminal)	
Ethernet		YES		
Front Function Keys		N/A	F1~F6 (Optional)	N/A
Audio out (optional)		N/A		
Video in (optional)		N/A		
Front USB Host Port		N/A	N/A (Optional)	N/A
Power	Supply Voltage	24VDC±10% (Isolated)		
	Consumption	10W	20W	
Environment	Operating Temperature	-10°C~60°C	-10°C~60°C (Optional for Front Aluminum Case+BR2450A/HAN battery: -20°C~70°C)	
	Relative Humidity	10%~90%		
	Shock (operation)	Half sine, 20G, 11ms duration		
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)		
	FCC	YES		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	UL61010		
	Ingress Protection	NEMA Type 4X / IP66		
	Cooling	Natural Cooling		
Dimension WxHxD (mm)*		129 x 103 x 33	203.5 x 148.5 x 37	233 ×176 × 42.2
Cutout Dimension WxH (mm)		118.5 x 92.5	191.5 x 138	221 × 163.5
Net Weight (Kg)		0.23	0.55	1

Outlet Dimension



Cut Out Dimension



Naming Rule

PT2 070 – 5 1 S T – L 1 Q 1 C00

Model Name PT2	Serial Port 4 4 (Only 4.3") 5 5	Ethernet Port 1 1	Mode T Standard Base Case L Low Temperature H High Luminance	Touch & PCB Coating 1 Built-in 5V Touch I.C. with PCB Normal Coating 2 Built-in 12V Touch I.C. with PCB Normal Coating 3 Enhance PCB Coating	Case Color & Material F Plastic/ Silver-Black L Plastic/ Silver-Black (Wide-Case) V Front Aluminum Case/ Silver Q Front Aluminum Case/ Silver-Black N Openframe	BKRAM & Memory 1 128KB 4 1024KB
						LCD Size 043 4.3" 070 7" 080 8" 100 10.1" 104 10.4" 121 12.1" 150 15"
Operation S Standard Mode F Front Keys (7" product models above) R COM5-RS232 (7" product models above)						



Model Name		PT2100-51ST	PT2104-51ST	PT2121-51ST	PT2150-51ST
LCD Display	Size	10.1" diagonal	10.4" diagonal	12.1" diagonal	15.0" diagonal
	Max. Resolution	1024*600	800*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight			
	Max. Colors	16-bit			
	Backlight Life (hr)	20,000		50,000	
	Luminance (cd/m2)	350	400	500	350
Touch Panel		4-wire Analog Touch Panel			
CPU		RISC ARM9 32Bit			
Battery Backup SRAM		128KB (Optional: 1024KB)			
Working Memory		64MB			
Application Memory		About 40MB			
Data File Memory		64MB			
Real-Time Clock (RTC)		YES (Unchargeable Battery type, 5 years battery life)			
Max. Porgramming Pages		7999 Pages			
Max. Macro Commands		Unlimited			
Communication Interface	Micro SD Slot	N/A			
	USB Host	YES (USB2.0)			
	USB Client	YES (USB2.0)			
	Serial (Com1)	RS232 (DB9)			
	Serial (Com2)	RS422/485 (DB9)			
	Serial (Com3)	RS485 (DB9)			
	Serial (Com4)	RS485 (5-Pin Terminal)			
	Serial (Com5)	RS485 (5-Pin Terminal) / Optional:RS232(5-Pin Terminal)			
Ethernet		YES			
Front Function Keys		F1~F7 (Optional)	N/A		
Audio out (optional)		N/A			
Video in (optional)		N/A			
Front USB Host Port		N/A (Optional)	N/A		
Power	Supply Voltage	24VDC ±10% (Isolated)			
	Consumption	20W			
Environment	Operating Temperature	-10°C~60°C (Optional for Front Aluminum Case+BR2450A/HAN battery: -20°C~70°C)			
	Relative Humidity	10%~90%			
	Shock (operation)	Half sine, 20G, 11ms duration			
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)			
	FCC	YES			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	UL61010	N/A		
	Ingress Protection	NEMA Type 4X / IP66	IP66		
	Cooling	Natural Cooling			
Dimension WxHxD (mm)*		270.8 x 212.8 x 42.5	270.8 x 212.8 x 42.5	335.4 x 245.9 x 58.2	399.1 x 297.6 x 57.5
Cutout Dimension WxH (mm)		259 x 201	259 x 201	302 x 228	384.5 x 283
Net Weight (Kg)		1.1	1.1	2	3

Converter Accessories (For 7" product models above)



HMB-CER-018
(RS232 / RS422 / RS485)



HMB-CER-034
(RS232 / RS485)



HMB-CER-035
(RS485 / RS485)



FCB-XD0-023
USB Download Cable for HMI

Communication Accessories

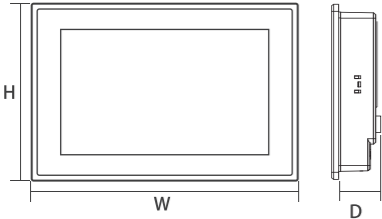


PK2 Ethernet

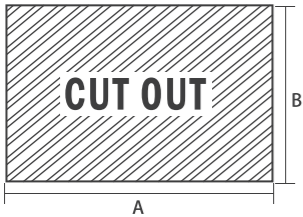


Model Name		PK2043-31ST	PK2070-31ST	PK2080-31ST	PK2100-31ST
LCD Display	Size	4.3" diagonal	7" diagonal	8" diagonal	10.1" diagonal
	Max. Resolution	480*272	800*480	800*600	1024*600
	Type	TFT LCD with LED Backlight			
	Max. Colors	16-bit			
	Backlight Life (hr)	20,000			
	Luminance (cd/m2)	400	400	250	350
Touch Panel		4-wire Analog Touch Panel			
CPU		RISC ARM9 32Bit			
Battery Backup SRAM		128KB (Optional: 1024KB)			
Working Memory		64MB			
Application Memory		About 40MB			
Data File Memory		64MB			
Real-Time Clock (RTC)		YES (Unchargeable Battery type, 3 years battery life)			
Max. Porgramming Pages		7999 Pages			
Max. Macro Commands		Unlimited			
Communication Interface	Micro SD Slot	N/A			
	USB Host	YES (USB2.0)			
	USB Client	YES (USB2.0)			
	Serial (Com1)	RS232 (5-Pin Terminal)	RS232 (DB9)		
	Serial (Com2)	RS422/485 (5-Pin Terminal)	RS422/485 (DB9)		
	Serial (Com3)	RS485 (5-Pin Terminal)	RS485 (DB9)		
	Serial (Com4)	N/A	Optional: RS485 (5-Pin Terminal)		
	Serial (Com5)	N/A	Optional: RS485 (5-Pin Terminal) or RS232 (5-Pin Terminal)		
Ethernet		YES			
Front Function Keys		N/A	F1~F6 (Optional)	N/A	F1~F7 (Optional)
Audio out (optional)		N/A			
Video in (optional)		N/A			
Front USB Host Port		N/A	N/A (Optional)	N/A	N/A (Optional)
Power	Supply Voltage	24VDC±10% (Isolated)			
	Consumption	10W	20W		
Environment	Operating Temperature	-10°C~60°C	-10°C~60°C (Optional for Front Aluminum Case+BR2450A/HAN battery: -20°C~70°C)		
	Relative Humidity	10%~90%			
	Shock (operation)	Half sine, 20G, 11ms duration			
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)			
	FCC	YES			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	N/A			
	Ingress Protection	IP65			
Cooling		Natural Cooling			
Dimension WxHxD (mm)*		129 x 103 x 33	203.5 x 148.5x 37	233 ×176 × 42.2	270.8 x 212.8 x 42.5
Cutout Dimension WxH (mm)		118.5 x 92.5	191.5 x 138	221 × 163.5	259 x 201
Net Weight (Kg)		0.23	0.55	1	1.1

Outlet Dimension



Cut Out Dimension



Naming Rule

PK2 070 – 3 1 S T – P 1 Q 1 C00

Model Name PK2	Ethernet Port 1 1	Mode T Standard Back Case L Low Temperature H High Luminance	Locks Material Q Metal (IP65) N Plastic(IP54)	BKRAM & Memory 1 128KB 4 1024KB
LCD Size 043 4.3" 070 7" 080 8" 100 10.1" 104 10.4" 120 12.1"(800*600) 121 12.1"(1024*768) 150 15"	Operation S Standard Mode F Front Keys (7" product models above) R COM5 - RS232 (7" product models above)	Touch & PCB Coating 1 Built-in 5V Touch I.C. with PCB Normal Coating 2 Built-in 12V Touch I.C. with PCB Coating 3 Enhance PCB Coating	Material & Case Color P Plastic / Gray B Plastic / Black Color V Front Aluminum Case/ Silver U Front Aluminum Case/ Silver-Black N Openframe	



Model Name		PK2104-31ST	PK2120-31ST	PK2121-31ST	PK2150-31ST
LCD Display	Size	10.4" diagonal	12.1" diagonal	12.1" diagonal	15.0" diagonal
	Max. Resolution	800*600	800*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight			
	Max. Colors	16-bit			
	Backlight Life (hr)	20,000		50,000	
	Luminance (cd/m2)	400	500	500	350
Touch Panel		4-wire Analog Touch Panel			
CPU		RISC ARM9 32Bit			
Battery Backup SRAM		128KB (Optional: 1024KB)			
Working Memory		64MB			
Application Memory		About 40MB			
Data File Memory		64MB			
Real-Time Clock (RTC)		YES (Unchargeable Battery type, 3 years battery life)			
Max. Porgramming Pages		7999 Pages			
Max. Macro Commands		Unlimited			
Communication Interface	Micro SD Slot	N/A			
	USB Host	YES (USB2.0)			
	USB Client	YES (USB2.0)			
	Serial (Com1)	RS232 (DB9)			
	Serial (Com2)	RS422/485 (DB9)			
	Serial (Com3)	RS485 (DB9)			
	Serial (Com4)	Optional: RS485 (5-Pin Terminal)			
	Serial (Com5)	Optional: RS485 (5-Pin Terminal) / RS232 (5-Pin Terminal)			
	Ethernet	YES			
Front Function Keys		N/A			
Audio out (optional)		N/A			
Video in (optional)		N/A			
Front USB Host Port		N/A			
Power	Supply Voltage	24VDC ±10% (Isolated)			
	Consumption	20W			
Environment	Operating Temperature	-10°C~60°C (Optional for Front Aluminum Case+BR2450A/HAN battery: -20°C~70°C)			
	Relative Humidity	10%~90%			
	Shock (operation)	Half sine, 20G, 11ms duration			
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)			
	FCC	YES			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	N/A			
	Ingress Protection	IP65			
	Cooling	Natural Cooling			
Dimension WxHxD (mm)*		270.8 x 212.8 x 42.5	335.4 x 245.9 x 58.2	335.4 x 245.9 x 58.2	399.1 x 297.6 x 57.5
Cutout Dimension WxH (mm)		259 x 201	302 x 228	302 x 228	384.5 x 283
Net Weight (Kg)		1.1	2	2	3

Converter Accessories (For 7" product models above)



HMB-CER-018
(RS232 / RS422 / RS485)



HMB-CER-034
(RS232 / RS485)



HMB-CER-035
(RS485 / RS485)



FCB-XD0-023
USB Download Cable
for HMI

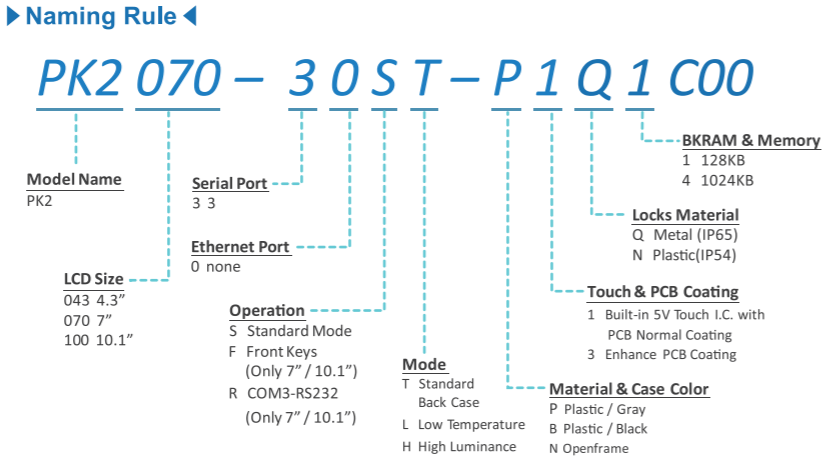
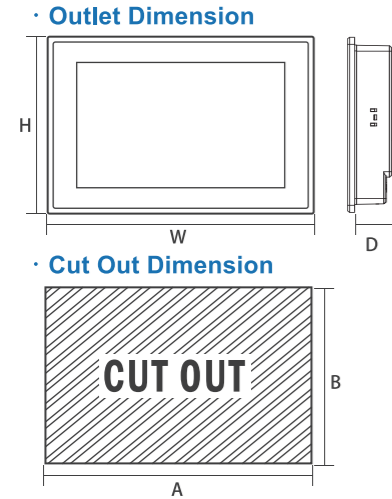
Communication Accessories



PK2 Serial



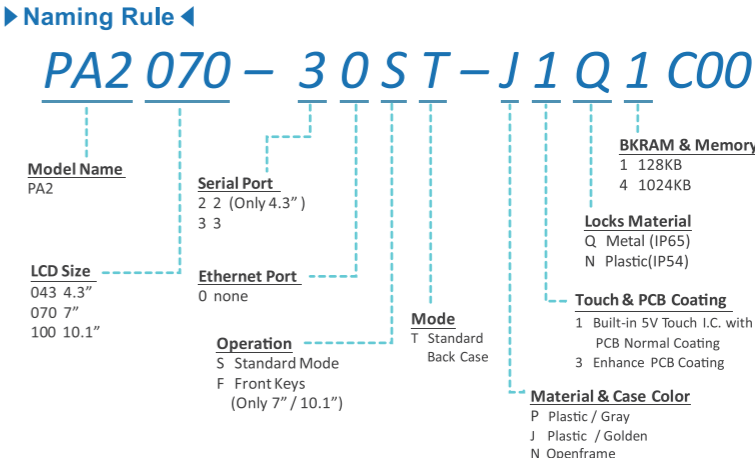
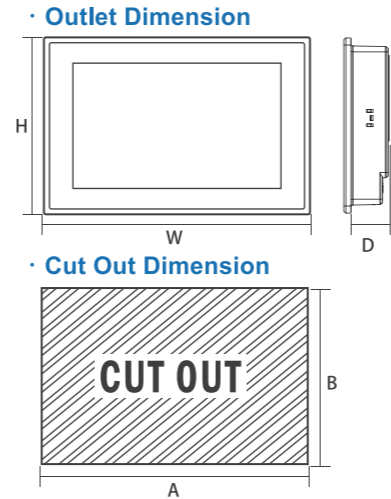
Model Name		PK2043-30ST	PK2070-30ST	PK2100-30ST
LCD Display	Size	4.3" diagonal	7" diagonal	10.1" diagonal
	Max. Resolution	480*272	800*480	1024*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	20,000		
	Luminance (cd/m2)	400	400	350
Touch Panel		4-wire Analog Touch Panel		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1024KB)		
Working Memory		64MB		
Application Memory		About 40MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type, 3 years battery life)		
Max. Porgramming Pages		7999 Pages		
Max. Macro Commands		Unlimited		
Communication Interface	Micro SD Slot	N/A		
	USB Host	YES (USB2.0)		
	USB Client	YES (USB2.0)		
	Serial (Com1)	RS232 (5-Pin Terminal)	RS232 (DB9)	
	Serial (Com2)	RS422/485 (5-Pin Terminal)	RS422/485 (DB9)	
	Serial (Com3)	RS485 (5-Pin Terminal)	RS485 (DB9) / Optional: RS232	
	Serial (Com4)	N/A		
	Serial (Com5)	N/A		
Ethernet		N/A		
Front Function Keys		N/A	F1~F6 (Optional)	F1~F7 (Optional)
Audio out (optional)		N/A		
Video in (optional)		N/A		
Front USB Host Port		N/A	N/A (Optional)	
Power	Supply Voltage	24VDC±10% (Isolated)		
	Consumption	10W	20W	
Environment	Operating Temperature	-10°C~60°C		
	Relative Humidity	10%~90%		
	Shock (operation)	Half sine, 20G, 11ms duration		
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)		
	FCC	YES		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	N/A		
	Ingress Protection	IP65		
Cooling		Natural Cooling		
Dimension WxHxD (mm)*		129 x 103 x 33	203.5 x 148.5x 31.5	270.8x212.8x 37
Cutout Dimension WxH (mm)		118.5 x 92.5	191.5 x 138	259 x 201
Net Weight (Kg)		0.23	0.55	1.1



PA2 Series



Model Name		PA2043-20ST	PA2070-30ST	PA2100-30ST
LCD Display	Size	4.3" diagonal	7" diagonal	10.1" diagonal
	Max. Resolution	480*272	800*480	1024*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	20,000		
	Luminance (cd/m2)	350	350	250
Touch Panel		4-wire Analog Touch Panel		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1024KB)		
Working Memory		64MB		
Application Memory		20MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type, 3 years battery life)		
Max. Porgramming Pages		30 Pages		
Max. Macro Commands		100 Lines		
Communication Interface	Micro SD Slot	N/A		
	USB Host	YES (USB2.0)		
	USB Client	YES (USB2.0)		
	Serial (Com1)	RS232 (5-Pin Terminal)	RS232 (DB9)	
	Serial (Com2)	Optional: RS422/485 (5-Pin Terminal)	RS422/485 (DB9)	
	Serial (Com3)	RS485 (5-Pin Terminal)	RS485 (DB9)	
	Serial (Com4)	N/A		
	Serial (Com5)	N/A		
Ethernet		N/A		
Front Function Keys		N/A	F1~F6 (Optional)	F1~F7 (Optional)
Audio out (optional)		N/A		
Video in (optional)		N/A		
Front USB Host Port		N/A	N/A (Optional)	
Power	Supply Voltage	24VDC±10% (Isolated)		
	Consumption	10W	20W	20W
Environment	Operating Temperature	-10°C~50°C		
	Relative Humidity	10%~90%		
	Shock (operation)	Half sine, 20G, 11ms duration		
	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)		
	FCC	YES		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	N/A		
	Ingress Protection	IP54		
Cooling		Natural Cooling		
Dimension WxHxD (mm)*		129 x 103 x 33	203.5 x 148.5x 31.5	270.8x212.8x 37
Cutout Dimension WxH (mm)		118.5 x 92.5	191.5 x 138	259 x 201
Net Weight (Kg)		0.23	0.55	1.1



Supports over 450 PLC communication protocols
+
More than 300 communication drivers

Collecting data instantly
+
Intelligence data analysis

Email alarm notification
+
Real-time alarm monitoring

Programmable macro

Gateway Service

APP Remote Control via HMI in Hand

S-BOX PLC
Transparent Communication

24V
Isolated & protected communication

Visualization

Connects to the IDCS

Model Name		SX51-21	SX51-51
CPU & Memory	CPU	RISC ARM9 300MHz (ARM926EJ-S)	
	Battery Backup SRAM	N/A	
	Working Memory	64MB	
	Data File Memory	128MB NAND Flash	
Serial Communications	COM1 (DB9)	RS232	
	COM2 (DB9)	RS422 or RS485	
	COM3 (DB9)	N/A	RS485
	COM4 (3-Pin Terminal)	N/A	RS485
	COM5 (3-Pin Terminal)	N/A	RS485 or RS232 (Adjust by DIP-Switch)
	Baud Rate	Up to 187.5 Kbps	
	Isolation	N/A	
USB Ports	USB Host	USB 2.0	
	USB Client	USB 2.0	
Ethernet Communications	Compatibility	IEEE 802.3, IEEE 802.3u	
	Speed	10/100 Mbps	
	No. of Ports	1 port with single IP	
	Port Connector	RJ-45, 10/100 Based-TX	
Power Supply	Source	External DC Power	
	Input Voltage	24 VDC ±10%	
	Connector	3Pin-Terminal Blocks	
	Isolation	YES	
Environment	Operating Temperature	-10°C~50°C (14°F~122°F)	
	Storage Temperature	-20°C~60°C (-4°F~140°F)	
	Humidity	10% ~ 90% RH @ 40°C, non-condensing	
	Shock(operation)	Half sine, 20G, 11ms duration	
Others	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)	
	LED Indicators	PWR1/COM1/COM2 RUN/STATUS1/STATUS2	PWR1/COM1/COM2/COM3/COM4/ COM5/RUN/STATUS1/STATUS2
	Mode Switch	Status Setting Switch	
	SD Slot	N/A	
	Dimensions (WxHxD)	27 x 150.4 x 98.5 mm	
	Enclosure	Metal	
	Weight	0.4 Kg	
	Mounting	DIN-Rail Mounting/Panel Mounting	
	OS Support	RTOS (Real-time O.S.)	
	Software Version	PM Designer v2.1.9.05 or higher version	
Software	Reboot Trigger	Watchdog Timer	
	HMI Server / Client	YES	
	IDCS	YES	
RTC		N/A	
Certifications		CE, FCC	

Supports over 450 PLC communication protocols
+
More than 300 communication drivers

Collecting data instantly
+
Intelligence data analysis

Email alarm notification
+
Real-time alarm monitoring

Programmable macro

Watchdog function

Provides dynamic & static schedule function

2 ports with 2 IP

APP Remote Control via HMI in Hand

S-BOX PLC
Transparent Communication

24V
Isolated & protected communication

Visualization

Connects to the IDCS

FTP Server/Client

Safety feedback I/O Connector

Model Name		SX52
CPU & Memory	CPU	RISC ARM9 300MHz (ARM926EJ-S)
	Battery Backup SRAM	128KB (Optional: 1MB)
	Working Memory	64MB
	Data File Memory	128MB NAND Flash
Serial Communications	COM1 (DB9)	RS232
	COM2 (DB9)	RS422 or RS485
	COM3 (DB9)	RS485
	COM4 (3-Pin Terminal)	RS485
	COM5 (3-Pin Terminal)	RS485 or RS232 (Adjust by DIP-Switch)
	Baud Rate	Up to 187.5 Kbps
	Isolation	N/A
USB Ports	USB Host	USB 2.0
	USB Client	USB 2.0
Ethernet Communications	Compatibility	IEEE 802.3, IEEE 802.3u
	Speed	10/100 Mbps
	No. of Ports	2 IP address Ports
	Port Connector	RJ-45 x 2, 10/100 Based-TX
DI/DO	DI	Transistor DC24V
	DO	Relay 220V4A
Power Supply	Source	External DC Power
	Input Voltage	24 VDC ±10%
	Connector	3Pin-Terminal Blocks
	Isolation	YES
Environment	Operating Temperature	-20°C~70°C (-4°F~158°F)
	Storage Temperature	-25°C~75°C (-13°F~167°F)
	Humidity	10% ~ 90% RH @ 40°C, non-condensing
	Shock(operation)	Half sine, 20G, 11ms duration
Others	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)
	LED Indicators	PWR1/COM1/COM2/COM3/COM4/COM5/RUN/STATUS1/STATUS2
	Mode Switch	Status Setting Switch
	SD Slot	YES
	Dimensions (WxHxD)	27 x 150.4 x 98.5 mm
	Enclosure	Metal
	Weight	0.4 Kg
	Mounting	DIN-Rail Mounting/Book Mounting
	OS Support	RTOS (Real-time O.S.)
	Software Version	PM Designer v2.1.9.15 or higher version
Software	Reboot Trigger	Watchdog Timer
	HMI Server / Client	YES
	IDCS	YES
RTC		YES
Certifications		CE, FCC

► Naming Rule ◀

SX

51

-

21

GN

-

U1

NN

Model Name

SX S-BOX

Product Series

51 51 Series

52 52 Series

Ethernet Port

1 Single Port

2 2 Ports

Serial Port

1 Single Port

2 2 Ports

5 5 Ports

DI & DO

N None (SX51)

A DI*2 & DO*2 (SX52)

..... (A/B/C.....Set by condition)

Function

G Gateway Function Only

H G + HMI Server + IDCS + MQTT (PM Designer v4.0)

Battery Status

N No Battery (SX51)

R Built-in Battery & RTC (SX52)

Material & Case Color

U1 Metal / Silver-Black

SRAM

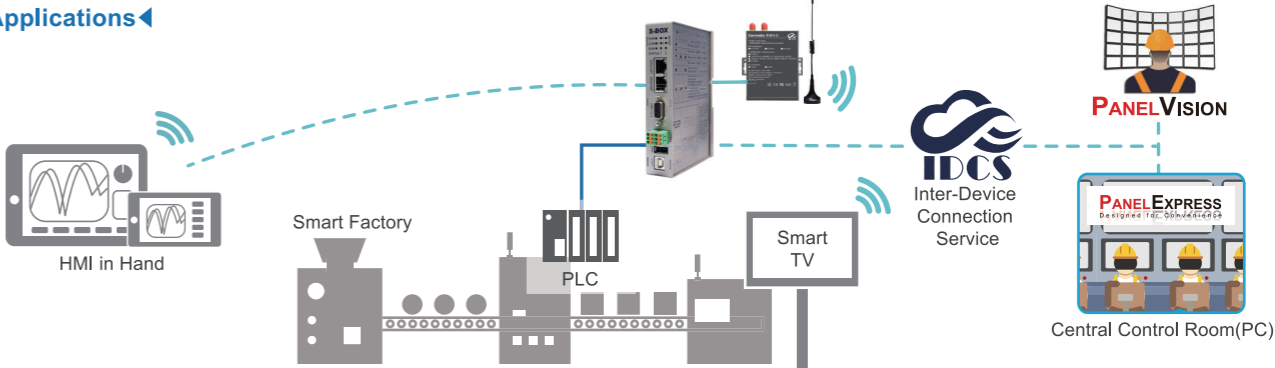
N No SRAM Design

0 Without SRAM

1 Built-in 128KB SRAM

4 Built-in 1MB SRAM

► Applications ◀



4.3" Series

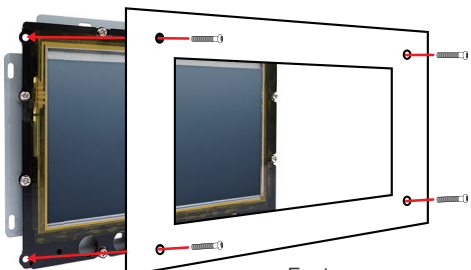
7.0" Series

Model Name		PA2043-20ST	PK2043-30ST	PK2043-31ST	PT2043-41ST	PA2070-30ST
Sub-models		N1N1				N1N1
LCD Display	Size	4.3" Diagonal				7.0" Diagonal
	Max. Resolution	480*272				800*480
	Type	TFT LCD with LED Backlight				TFT LCD with LED Backlight
	Max.Colors	16-bit				16-bit
	Backlight Life (hr)	20,000				20,000
Luminance (cd/m2)*2		350	400			350
Touch Panel		4-wire Analog Touch Panel				4-wire Analog Touch Panel
CPU		RISC ARM9 32Bit				RISC ARM9 32Bit
Battery Backed RAM		128KB (Optional:1024KB)				128KB (Optional:1024KB)
Working Memory		64MB				64MB
Application Memory		20MB	About 40MB			20MB
Data File Memory		64MB				64MB
Real-Time Clock (RTC)		YES (Unchargeable Battery type,3 years battery life)			YES (Unchargeable Battery type, 5 years battery life)	YES (Unchargeable Battery type, 3 years battery life)
Max. Programming Pages		30 Pages	7999 Pages			30 Pages
Max. Macro Commands		100 Lines	Unlimited			100 Lines
Communication Interface	MicroSD Slot	N/A				N/A
	USB Host	YES (USB 2.0)				YES (USB 2.0)
	USB Client	YES (USB 2.0)				YES (USB 2.0)
	COM1	RS232 (5-Pin Terminal)	RS232 (5-Pin Terminal)	RS232 (5-Pin Terminal)	RS232 (5-Pin Terminal)	RS232 (DB9)
	COM2	RS422/485 (Optional 5-Pin Terminal)	RS422/485 (5-Pin Terminal)	RS422/485 (5-Pin Terminal)	RS485 (5-Pin Terminal)	RS422/485 (DB9)
	COM3	RS485 (5-Pin Terminal)	RS485 (5-Pin Terminal)	RS485 (5-Pin Terminal)	RS485 (5-Pin Terminal)	RS485 (DB9)
	COM4	N/A	N/A	N/A	RS485 (5-Pin Terminal)	N/A
	COM5	N/A	N/A	N/A	N/A	N/A
Ethernet		N/A		YES		N/A
Front Function Keys		N/A				N/A
Audio Out		N/A				N/A
Video In		N/A				N/A
Front USB Host Port		N/A				N/A
Power	Supply Voltage	24VDC±10%(Isolated)				24VDC±10%
	Consumption*1	10W				20W
Environment	Operating Temperature	-10°C~50°C	-10°C~60°C			-10°C~50°C
	Relative Humidity	10%~90%				10%~90%
	EMI	N/A				N/A
	CE	N/A				N/A
	UL Certification	N/A				N/A
	Ingress Protection	N/A				N/A
Cooling		Natural Cooling				Natural Cooling
Dimension WxHxD (mm)		127 X 80 X 34.5mm				200 X 140 X 39.9mm
Bezel Open Dimension (mm)		108.95 X 75.1mm				154.08 X 85.92mm
Net Weight (Kg)		0.17Kg				0.62Kg

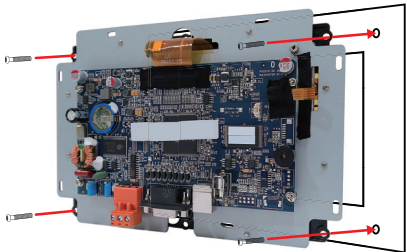
Remark 1 : Power consumption is based on the data when the HMI is not connected to the device.Recommended power supply capacity of 1.5-2 times the marked power consumption to ensure the machine works normally long-term.

Remark 2 : The actual luminance will differ because of the transmittance through Touch Panel and membrane.

► Can be installed from both sides for all openframe products.
(Please refer to the installation manual for more detail)



Fasten screws from front side



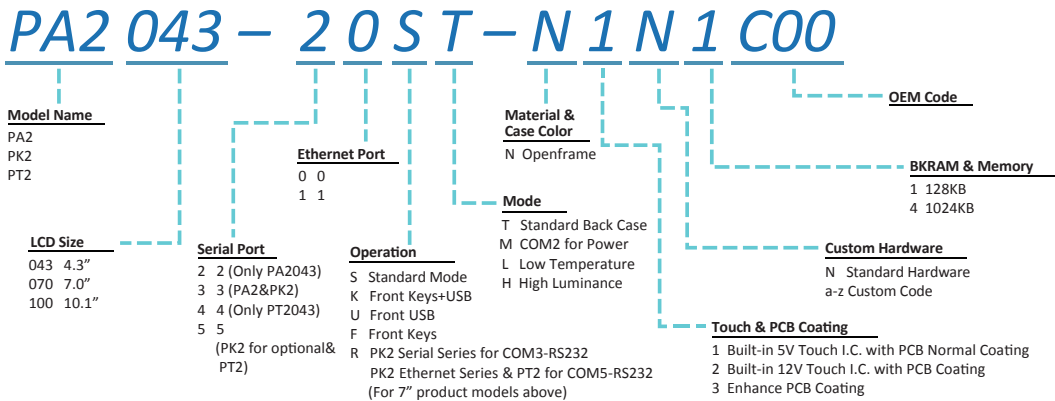
Fasten screws from back side

10.1" Series

Model Name		PK2070-30ST	PK2070-31ST	PT2070-51ST	PK2100-31ST	PT2100-51ST
Sub-models		N1N1			N1N1	
LCD Display	Size	7.0" Diagonal			10.1" Diagonal	
	Max. Resolution	800*480			1024*600	
	Type	TFT LCD with LED Backlight			TFT LCD with LED Backlight	
	Max.Colors	16-bit			16-bit	
	Backlight Life (hr)	20,000			20,000	
Luminance (cd/m2)*2		400			350	
Touch Panel		4-wire Analog Touch Panel			4-wire Analog Touch Panel	
CPU		RISC ARM9 32Bit			RISC ARM9 32Bit	
Battery Backed RAM		128KB (Optional:1024KB)			128KB (Optional:1024KB)	
Working Memory		64MB			64MB	
Application Memory		About 40MB			About 40MB	
Data File Memory		64MB			64MB	
Real-Time Clock (RTC)		YES (Unchargeable Battery type,3 years battery life)		YES (Unchargeable Battery type, 5 years battery life)	YES (Unchargeable Battery type, 3 years battery life)	YES (Unchargeable Battery type, 5 years battery life)
Max. Programming Pages		7999 Pages			7999 Pages	
Max. Macro Commands		Unlimited			Unlimited	
Communication Interface	MicroSD Slot	N/A			N/A	
	USB Host	YES (USB 2.0)			YES (USB 2.0)	
	USB Client	YES (USB 2.0)			YES (USB 2.0)	
	COM1	RS232 (DB9)	RS232 (DB9)	RS232 (DB9)	RS232 (DB9)	RS232 (DB9)
	COM2	RS422/485 (DB9)	RS422/485 (DB9)	RS422/485 (DB9)	RS422/485 (DB9)	RS422/485 (DB9)
	COM3	RS485 (Optional:RS232) (DB9)	RS485 (DB9)	RS485 (DB9)	RS485 (DB9)	RS485 (DB9)
	COM4	N/A	RS485 (Optional) (5-Pin Terminal)	RS485 (5-Pin Terminal)	RS485 (Optional) (5-Pin Terminal)	RS485 (5-Pin Terminal)
	COM5	N/A	RS485 or RS232 (Optional) (5-Pin Terminal)	RS485 (Optional:RS232) (5-Pin Terminal)	RS485 or RS232 (Optional) (5-Pin Terminal)	RS485 (Optional:RS232) (5-Pin Terminal)
Ethernet		N/A	YES		YES	
Front Function Keys		N/A			N/A	
Audio Out		N/A			N/A	
Video In		N/A			N/A	
Front USB Host Port		N/A			N/A	
Power	Supply Voltage	24VDC±10%(Isolated)			24VDC±10%(Isolated)	
	Consumption#1	20W			20W	
Environment	Operating Temperature	-10°C~60°C			-10°C~60°C	
	Relative Humidity	10%~90%			10%~90%	
	EMI	N/A			N/A	
	CE	N/A			N/A	
	UL Certification	N/A			N/A	
	Ingress Protection	N/A			N/A	
Cooling		Natural Cooling			Natural Cooling	
Dimension WxHxD (mm)#3		200 X 140 X 39.9mm	200 X 140 X 45mm		252 X 194.1 X 38.8mm	
Bezel Open Dimension (mm)		154.08 X 85.92mm			223 X 127.7mm	
Net Weight (Kg)		0.62Kg			1.2Kg	

Remark 3 : The depth of PK2 Ethernet Series and PT2 Series includes Terminal Block Height(optional item for PK2 Ethernet series)

► Naming Rules ◀



Serial Port	
Brand	Model
Advantech	ADAM (Modbus RTU)
	ADAM-4000 (ASCII)
Allen Bradley	Micrologix 1000/1500
	SLC 5/03, 5/04
	DH-485 (COM)
	PLC-5
	SLC 5/03, 5/04 (CRC)
	CompactLogix/ControlLogix Tag
Astraada HMI	Modbus Master (RTU)
	Modbus Device/Slave (RTU)
Banner Engineering Int'l Inc.	BSP01 Series
CMZ Sistemi Elettronici	NF0 Controllers
	FCT Controllers
	SD Drivers
	SDS Drivers
	MDM Drivers
DEIF A/S	Modbus RTU (COM port)
	WSS/WSS-L
Delta Corporation	DVP-ES/SS/EP/EH
	DVP-SV (Modbus RTU / ASCII)
	VFD-M Inverter (ASCII)
	VFD-B Inverter (ASCII)
	DTC1000/2000 Temperature (ASCII)
	DTA Temperature (ASCII)
	DTE Temperature (ASCII)
	ASDA-A Servo Controller (ASCII)
	ASDA-B Servo Controller (ASCII)
	ASDA-A2 Servo Controller (ASCII)
Emerson Network Power	EC Series (RTU)
	EV1000 Series Variable Speed Driver
Eura Drives Electric Corp.	Eura EF1S/1N
	Eura EF2N
	Eura Inverter (Modbus RTU / ASCII)
	Eura EF200-CPU202(Modbus RTU)
	Eura EF200-CPU202XP/CPU204(Modbus RTU)
	Eura EF200-CPU204XP/CPU206(Modbus RTU)
	Eura EF300-CPU304(Modbus RTU)
	Eura EF300-CPU306(Modbus RTU)
	Eura Servo Drive (Modbus RTU/ASCII)
	Eura HFR1000 (Modbus RTU/ASCII)
Fatek Automation Corp.	FATEK FBs/FBe
	FPC/FEC Series
Festo Corporation	NB Series
	PXR Series Temperature (RTU)
	FRENIC-VP (RTU)
	FRENIC5000G11/P11 (Fuji)
FVK Automation Co., Ltd.	F Series Inverter
	90 Series SNP
GE Corporation	VersaMax Series (SNP)
	90 and RX3i Series (SNP)
	90 Series CCM
Hitachi Industrial Equipment Systems Co., Ltd	SJ200 Inverter
	H/EH Series
	EHV Series (Procedure 1)
	H-252C
	H/EH Series (Procedure 2)
Hitech	AD Series Servo Drives
	Computer as Slave (COM)
	Computer as Master (COM)
	Computer as Slave V2 (COM)
	Computer as Master V2 (COM)
Honeywell	BACnet/MSTP
	BACnet
HUST Automation Inc.	CNC Controller
	New CNC Controller
Idec Corporation	CNC Controller (GCODE)
	FC Series
Inovance Control Technology Co., Ltd.	H2u (CPU Port)
	MD Series Inverter (RTU)
	MD Series Inverter (RTU-1)
	IS Servo (RTU)
Joint Peer Systec Corp.	IRIS Series
	JUPITER Series
	PDAN Series
	PDS Series
Keyence Corp.	KV Series
	KV-1000
	KV-L20V,KV-NANO

Brand	Model
Keyence Corp.	KV-L20
	KV-3000
Kinco Automation Ltd.	Kinco ED Series
Koyo Electric Corp.	K Sequence Series
	Direct Logic Series
	Direct 06 Series (K Sequence)
	Direct 06 Series (DirectNET)
	Master-K Series CNet
LG Industrial Systems	K120S CPU Port
	Master-K Loader
	GLOFA GM Series CNet
	XBM-DR16S
	GLOFA GM Loader
	XEC/XGI CNet
	XGT/XGK (CPU)
LiteON Industry Automation	XGL-C22A
	EVO Inverter Series (RTU)
LSIS Co. Ltd.	XGB XBM S-series (CPU)
	XGB - XBC E (CPU)
	XGB - XBC H (CPU)
	XGB - XBC E (Dedicated Protocol)
	XGB XBCS - CNet
Matsushita Electric Works	FP Series Computer Link
	FP-X Series
	VFOC Series Inverter
Micro Trend Corp.	VF100 Series Inverter
	UTC400P+
	UTC400P+ (for 64)
MIKOM ELECTRICAL TECHNOLOGY	UTC Servo Controller
	MX Series PLC
Mitsubishi Electric Corp.	Melsec-FX (CPU Port)
	Melsec-Q/QnA (Link Port)
	Melsec-Q00/01 (CPU Port)
	Melsec-Q02/Q02H (CPU Port)
	Melsec-Q02U (CPU Port)
	Melsec-Q00J (CPU Port)
	Melsec-FX2n (CPU Port)
	Melsec-FX3U (CPU Port / Link Port)
	Melsec-AnN/AnS (Link Port)
	Melsec-AnN/AnS Protocol 4
	FX2n-10GM/20GM
	Melsec-A1S/A2S (CPU Port)
	FR-E500 Series (485)
	Melsec-A3N/A1SH (CPU Port)
	Melsec-AnA/AnU (Link Port)
	Melsec-AnA/AnU Protocol 4
	Servo Amplifier MR-J2S-A
	Servo Amplifier MR-J3-A
	Servo Amplifier MR-J4-A
	Melsec-A2A/A2AS (CPU Port)
	Melsec-Q06H (CPU Port)
	Melsec-Q12H (CPU Port)
	Melsec-Q03U (CPU Port)
	Melsec-Q00U (CPU Port)
	GOT-F900 Emulator (1:1 Format 1 & 2)
Modicon Corp.	Melsec-Q01U (CPU Port)
	Melsec-FX5U
	Modicon 984 Master (RTU)
	Modicon 984 Master (RTU; Little Memory)
	Modicon 984 Device/Slave (RTU)
	Modbus Master (ASCII)
	Modbus Master (ASCII; Little Memory)
	Modbus Device/Slave (ASCII)
	Modicon Device/Slave (RTU, Quantum)
	Modbus Master (RTU; Non-volatile slave data)
Omron Corporation	Modbus Device/Slave (RTU; 6-digit Addresses)
	Modbus Master (ASCII; Non-volatile slave data)
	Sysmac C Series Host Link
	Sysmac CV Series Host Link
	Sysmac CVM Series (Host Link)
	Sysmac CS/CJ Series (Host Link / FINS)
	Sysmac CP Series (FINS)
	E5CN Temperature (CompoWay/F)
	E5CN Temperature (Modbus RTU)
	EJ1 Temperature (CompoWay/F)
Panasonic Corporation	KM100 (CompoWay/F)
	3G3MV Inverter (RTU)
	FP Series
	MINAS A4 Series
	MINAS A5 Series (RS485)

Brand	Model
Panasonic Corporation	FP7-CPS31E/41E
	General Device (COM)
PanelMaster	Modbus Master (RTU)
	Modbus Device/Slave (RTU)
	Modbus Device/Slave (Word order in big-endian)
	Modbus Device/Slave (RTU; No block read)
	Modbus Device/Slave (ASCII)
	Modbus Device/Slave (ASCII; No block read)
	Barcode Scanner
	Compax3
Parker Hannifin	HID Series (X4 RS232 Port)
	SLVDN Series (X1 RS422/485 Port)
	MA900/CB900 Series (RTU)
RKC Instrument Inc.	CD/CH Series (ASCII)
	RB/CB (RKC)
Saia Burgess	PCD Series (S-Bus PGU)
	PCD Series (S-Bus, Data Mode)
Samwon Technology	NOVA Series (RTU)
	NOVA Series
Schneider Electric	ATV31 Inverter (RTU)
	Lexium 23 Servo Controller (ASCII)
	Modbus RTU (COM PORT)
Siemens AG	Simatic S7-200 (PPI; 1-to-1)
	Simatic S7-200 SMART (PPI; 1-to-1)
	Simatic S7-200 (PPI; Network)
	Simatic S7-300 (MPI Port/PC Adaptor)
	Simatic S5 / S5 3964R
	TP03 Series (Modbus RTU)
	TP02 Series
Taian Automation Co.,Ltd.	TAIE FY100/900 Series (RTU / TAIE)
	FY series DIGITAL PID CONTROLLER
Taiwan Instrument & Control Co., Ltd.	TSDA Series AC Servo
Teco Electric & Machinery Co.,Ltd.	TP03 Series (Modbus RTU)
	TP02 Series
	TSTA Series AC Servo
	L510s AC Inveter
	E510s AC Inveter
	A510s AC Inveter
	F510s AC Inveter
	JSDG2 AC Servo
	JSDAP AC Servo
	JSDEP AC Servo
	AP Series PLC
	TI505
	TTX-700 (Modbus RTU)
TOHO Electronics Inc.	TTM-000 Series (TOHO Protocol)
	TTM-200 Series (TOHO Protocol)
USAT Technologies	AX (CPU Port)
	AX2N (CPU Port)
	AX3U (CPU Port)
Vertex Technology Co., Ltd	VT26/30 Series Controllers (RTU)
Vigor Corporation	M/VB Series
Yamatake Corporation	VS Series
	SDC35/36 Temperature (RTU / ASCII)
Yaskawa Corporation	MA500 FA Controller (ECL Host)
	DMC10 Controller (RTU/ASCII)
	MX30
Yokogawa Electric Corporation	MX50
	Σ-II SGMH Series AC Servo
	MP Series Controller (Memobus)
	V7 inverter (Memobus)
	NS600 Servo Controller
	FA-M3 Series (CPU Port)

Note: *This Driver List is only suitable for software V2.1.9.00 or higher version.
*The brand names are listed in alphabetical order.
*This driver list will be updated at any time, please contact us for the latest information.

Ethernet Port	
Brand	Model
Advantech	BACnet/IP
	HW BACnet/IP
Allen Bradley	ADAM-6000 (ModBus TCP/IP)
	MicroLogix 1000/1500 via 1761-NET-ENI
	MicroLogix
	CompactLogix/ControlLogix Ethernet/IP Tag
Astraada HMI	Micro 820/850
	ModBus Master (TCP/IP)

Brand	Model
Astraada HMI	ModBus Device/Slave (TCP/IP)
	ModBus Master (TCP/IP; Type 2)
	ModBus Device/Slave (TCP/IP; Type 2)
Azbil Corporation	BACnet/IP WJ-1
Banner Engineering Int'l Inc.	BSP02 Series
Beckhoff Automation GmbH	ADS for TwinCAT 2 (via Ethernet)
	ADS for TwinCAT 2 (via DLL)
	ADS for TwinCAT 3 (via Ethernet)
	ADS for TwinCAT 3 (via DLL)
CMZ Sistemi Elettronici	FCT Controllers(TCP/IP; Type 2)
CODESYS Automation Alliance	CODESYS V3 TCP/IP
DEIF A/S	TCP/IP Modbus (Ethernet port)
Delta Corporation	AS Series (Modbus TCP)
Fatek Automation Corp.	Fatek FBs/FBe (TCP)
Festo Corporation	FPC/FEC EasyIP
Fuji Electric Corporation	MICREX-SX
GE Corporation	SRTP Ethernet
	SRTP Ethernet (Micro)
Hitachi Industrial Equipment Systems Co., Ltd	EH/EHV Series (Ethernet; TCP)
	EH/EHV Series (Ethernet; UDP)
Honeywell	BACnet/IP
	HW BACnet/IP
IMO	General Device (TCP/IP Slave)
	Modbus Device/Slave (TCP/IP)
JETTER	JetControl 24x Series (Ethernet)
Keyence Corp.	KV-5000
Lenze Drive Systems GmbH	KV-7000
	E94AYCEN GCI(TCP/IP) Protocol
LG Industrial Systems	XGT/XGK (CPU)
Mirle Automation Corporation	Fama SoftPLC Ethernet
	ModBus Device/Slave (TCP/IP)
Mitsubishi Electric Corp.	Q Ethernet
	Q/L Ethernet (ASCII Mode)
	L Ethernet (Binary Mode)
	Melsec-FX3U (MC-Protocol)
	Melsec-FX5U
Modicon Corp.	ModBus Master (TCP/IP)
	ModBus Device/Slave (TCP/IP)
	ModBus Master (TCP/IP; Type 2)
	ModBus Device/Slave (TCP/IP; Type 2)
Omron Corporation	Sysmac CS/CJ Series FINS/TCP
	Sysmac NJ Series FINS/TCP
Panasonic Corporation	FP Series Computer Link
	FP7-CPS31E/41E
	FP7 (Computer Link)
PanelMaster	TCP/IP Gateway Server
	Data Sharer (UDP)
	General Device (TCP/IP Slave)
	Ping
	Modbus Device/Slave (TCP/IP)
	Internal Memory Server
	Internal Memory
	OPC UA / DA Client Driver
Parker Hannifin S.p.A.	Http Gateway Server
	Web Server
	6K Ethernet Protocol
PORIS	6K Fast Status Update
Saia Burgess	XC ModBus TCP
	PCD Series (Ether-S-Bus)
Schneider Electric	PCD Series (Ether-S-Bus) (Sub-Link)
	Modbus RTU TCP/IP
Siemens AG	Simatic S7-300 Ethernet Module (CP343)
	SIMATIC S7 (Ethernet)
	SIMATIC S7-300 (Ethernet)
	SIMATIC S7-200 SMART (Ethernet)
	SIMATIC S7-200 (Ethernet)
TPM	LOGO (Ethernet)
	EPC-1000
TRIO Motion Technology	MC4N (32-bit Mode)
Vigor Corporation	VB/VH Series (TCP/IP)
	VS Series (ENET)
WAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750
	WAGO-I/O-SYSTEM 750-820x
Wieland Electric GmbH	Modbus Master (TCP/IP; Type 2)
	Modbus Device/Slave (TCP/IP; Type 2)
Yaskawa Corporation	Σ-II SGMH Series AC Servo
	MP Series Controller (Memobus)
	V7 inverter (Memobus)
	NS600 Servo Controller
Yokogawa Electric Corporation	FA-M3 Series (CPU Port)