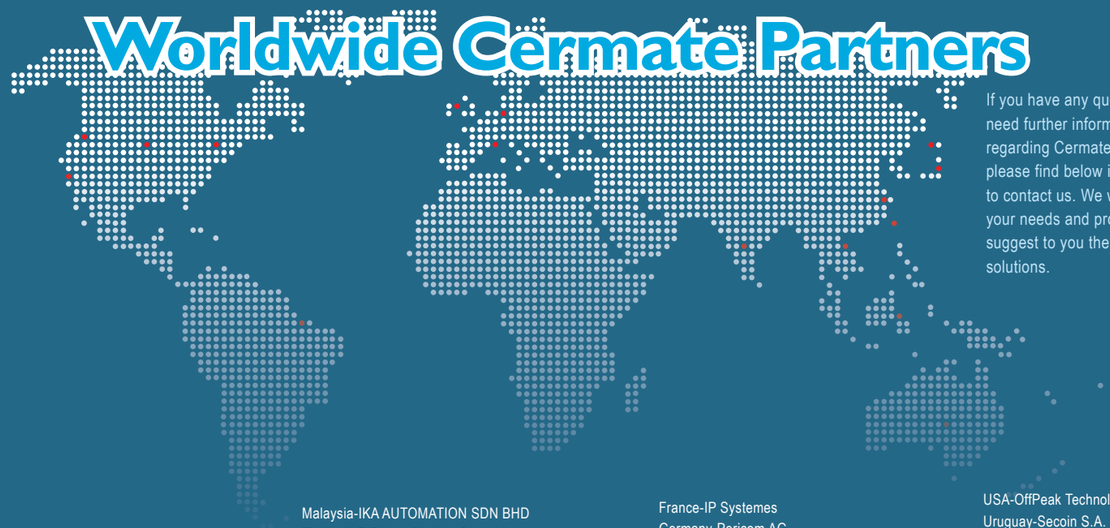
Worldwide Cermate Partners



If you have any questions or need further information regarding Cermate products, please find below information to contact us. We will study your needs and promptly suggest to you the best solutions.

Malaysia-IKA AUTOMATION SDN BHD
Thailand-E-Power Service Co., Ltd
India-DEVANSHI ELECTRONICS PVT LTD
Middle East-PARS MECHATRONIC INDUS., CO. Ltd.

France-IP Systemes
Germany-Pericom AG
Italy-KITE automation srl
Netherlands-Delmation Products BV
Spain-INTRA automation s.l.
Switzerland-Pericom AG
Turkey-Ratek Otomasyon ve Elek. San. Tic. Ltd. Şti.

USA-OffPeak Technologies LLC
Uruguay-Secoin S.A.
Australia-Autech Control Group Pty Ltd

Cermate

Cermate is a professional HMI solution and IoT gateway provider. Cermate currently supplies over 1,000,000 units of our easy-to-use high-quality hardware to successful businesses worldwide. From our 100% guaranteed test for the highest quality, to our excellent customer service and commitment to always provide you with the best, most innovative technology, you can rest assured in your purchases from Cermate, A professional HMI solution provider.



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MSA-R40-E00-A-V0301

Cermate

The HMI Solutions and IoT Gateways Provider



IoT Gateway
Human Machine Interface

SX-Series Industrial/IoT Gateway
PA2/PK2/PT2 HMI Panels

PanelMaster Designed to be Outstanding

Hardware Features



• 4.3”~15” Full Range HMIs



• High Definition TFT LCD



• Power Isolation Design



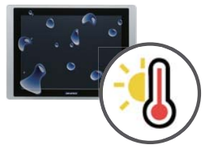
• Fast Boot Up



• Full Communication Ports for multi-devices linking



• Built-in Multifunction I / O interface



• High Environmental Protection Class



• Built-in Powerful Storage Memory

Software Feature



• Object-Oriented Software
- Switch/Button Display
- Indicator Display
- General Data Entry
- Meter Control & Display
- Message Display



• Data Visualization
- Curve & Trend Graph
- Animated Graphic
- Pipeline Display
- Barcode/QR Code Display
- Path Display

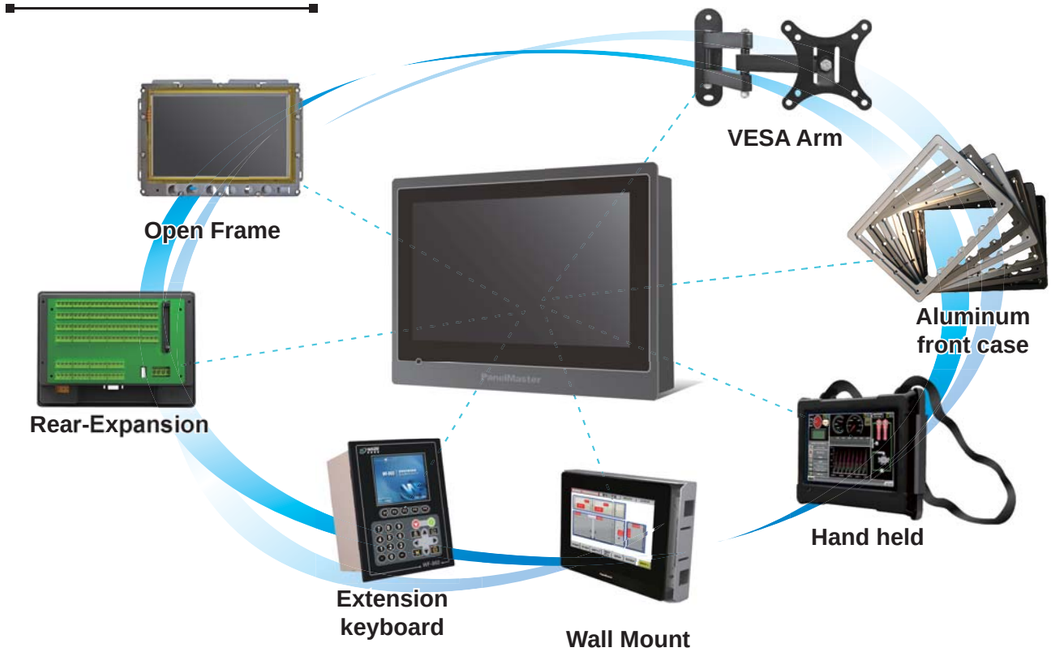


• File & Database Management
- Alarm Data
- Recipe Data
- Historical Data Loggers
- Operation Logging
- Schedule Table



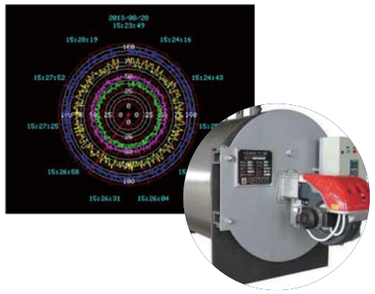
• Security Protection
- User Level Protection
- Due Date Passwords
- Project File Protection
- Event Processor
- Macros Protection

Customization

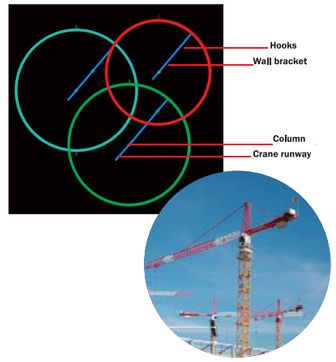


Applications

• Historic Radar Chart
- Plumbery
- Temperature/Humidity management



• Tower Cranes
- Construction Industry



• Barcode/QRcode Display
- Warehousing System
- Freight System



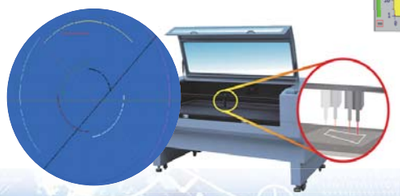
• Parison Programmer
- Injection Molding Machine



• Rotation Indicator
- Wind Turbine Generator
- Lapping Machine



• Path Display
- Laser cutting machine
- Dispensing Robot Dispenser



Application Fields

PA2000

Automated Parking

S-Box

WK2070

Building Automation

HMI In Hand (APP)

Factory Automation

Factory Equipment Control & Connectivity

(HMI Server / Client)

S-Box

Factory Process Visualization

PA2 PK2 PT2

PANEL EXPRESS
Designed for Convenience

SMART FACTORY

HMI Server / Client Description

PC Remote Control & Monitor – PanelSim



PANELEXPRESS
Designed for Convenience



Android Mobile Control & Monitor – Android Device



WAN – Login with Static IP Address



WAN – Login with Domain Name



Factory Signage – The Smart TV makes it come true



S-BOX



- Support over 350 PLC communication protocols
- More than 300 communication drivers
- Remot monitoring function through VNC on mobile devices
- Customized SCADA program
- Collecting data instantly
- Intelligence data analysis
- Sending Alarm notifications from E-Mail
- Data Log Function
- With instant alarm monitoring
- Data recordinging
- APP Remote Control
- HMI Server/ Client
- Built-in programmed Macro programs
- Provide FTP server options
- Provide dynamic and static schedule function
- 12-30V Isolated power supply
- Isolated and protected communication
- Built-in daul power input with backup power
- The relay output for power fail
- Watchdog function
- PLC Transparent Connection from Serial and Ethernet

Specification		Model Name: SX32-G2D-U1R1
CPU & Memory	CPU	RISC ARM9 32Bit
	Battery Backup SRAM	128KB
	Working Memory	64MB
	Build-in Storage Memory	8MB
Serial Communications	Serial Signals	RS-232: TXD, RXD, SG
		RS-422: TXD+, RXD+ ,TXD-, RXD-
		RS-485: Data+, Data-, SG
	No. of Ports	3 ports
	Serial Connector	9Pin-female D-Sub Connector & 3Pin Terminal Blocks
	Data Rate	Up to 187.5 Kbps
	Isolation	Yes
USB Ports	USB Host	USB 1.1
	USB Client	USB 2.0
Ethernet Communications	Compatibility	IEEE 802.3, IEEE 802.3u
	Speed	10/100 Mbps
	No. of Ports	2 ports with single IP
	Port Connector	8-Pin RJ45
	Isolation	Yes
Power Supply	Source	External
	Input Voltage	12-30 VDC, 5W
	Connector	6Pin-Terminal Blocks
	Relay Output Current Carry Capacity	1A@24A VDC
	Isolation	Yes
Environment	Operating Temperature	-20°C~70°C
	Storage Temperature	-25°C~75°C
	Humidity	10%~90%
	Shock(operation)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock test)
Mechanical	LED Indicators	PWR1/PWR2/COM1/COM2/COM3/RUN/STATUS1 /STATUS2
	Switches	Battery Switch / Mode Switch
	SD Slot	Yes
	Dimensions (WxHxD)	29 x 150.4 x 98.6 mm
	Enclosure	Metal
	Weight	0.4 Kg
	Mounting	DIN-Rail Mounting / Panel Mounting
Software	OS Support	RTOS (Real-time O.S.)
	Software Version	PM Designer v2.1.7.00 or higher
	Reboot Trigger	Watchdog Timer
RTC		Yes
Certifications		CE, FCC

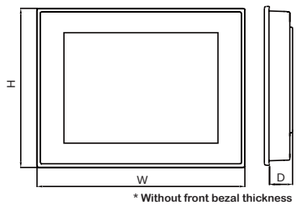
PA2 Series





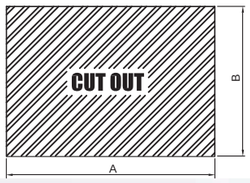
Model Name		PA2043	PA2070	PA2100
Sub-Models		20ST	30ST / 30FT	30ST / 30FT
Display	Size	4.3" diagonal	7.0" diagonal	10.1" diagonal
	Resolution	480*272	800*480	1024*600
	Type	TFT LCD LED With Backlight		
	Max. Colors	16-bit		
	Backlight Life(hr)	20,000		
	Luminance(cd/m2)	350	350	250
Touch Panel		4-wire Analog Resistive Type		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1MB)		
Working Memory		64MB		
AP Max Size for Memory		20MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type,3 year battery life)		
Max Programming Screen		30 Pages		
Max Quantity for Macro Commands		100 Lines		
Communication Interface	Micro SD Slot	N / A		
	USB Client	YES (USB 2.0)		
	USB Host	YES (USB 2.0)		
	Serial(Com1)	RS232(5-Pin Terminal)	RS232(DB9)	
	Serial(Com2)	RS422/485 (5-Pin Terminal) (Optional)	RS422/485(DB9)	
	Serial(Com3)	RS485(5-Pin Terminal)	RS485(DB9)	
	Serial(Com4)	N / A		
	Ethernet	N / A		
Front Function Keys		N / A	Sub Model:30FT (F1~F6)	Sub Model:30FT (F1~F7)
Audio Out (Optional)		N / A		
Video In (Optional)		N / A		
Front USB Host Port		N / A (Optional)		
Power	Supply Voltage	12~24VDC±10%		
	Consumption	2W	3W	3.5W
Environment	Operating Temperature	-10°C~50°C (Optional-30°C~70°C)		
	Relative Humidity	10% ~ 90%		
	Shock (Operation)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock test)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	N / A		
	Ingress Protection	IP65 (Optional: IP54 for Plastic Locks)		
	Cooling	Natural Cooling		
Dimension WxHxD (mm)		129.0x103x33	203.5x148.5x35	270.8x212.8x40.5
Cutout Dimension AxB (mm)		118.5x92.5	191.5x138	259.5x201.5
Net Weight (Kg)		0.23	0.55	1.1

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PA2 070 – 3 0 S T – J 1 Q 1 C00

- **Model Name**: PA2
- **LCD Size**: 043 4.3" / 070 7" / 100 10.1"
- **Serial Port**: 2 2 (Only For 4.3") / 3 3
- **Ethernet Port**: 0 none
- **Operation**: S Standard Mode / K Front Key + USB / U Front USB / F Front Keys
- **Mode**: T Standard Back Case / E None Back Case / 0 Case from Customer / M COM2 for Power / L Low Temperature / H High Luminance
- **Material & Case Color**: P Plastic / Gray / J Plastic / Golden / N Openframe
- **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
- **BKRAM & Memory**: 1 128KB / 4 1024KB
- **Locks Material**: Q Metal / N Plastic
- **OEM Code**: 00 Standard / 01- FF Customer Code

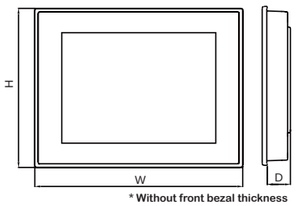
PK2 Serial





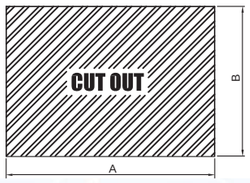
Model Name		PK2043	PK2070	PK2100
Sub-Models		30ST	30ST	30ST
Display	Size	4.3" diagonal	7.0" diagonal	10.1" diagonal
	Resolution	480*272	800*480	1024*600
	Type	TFT LCD LED With Backlight		
	Max. Colors	16-bit		
	Backlight Life(hr)	20,000		
	Luminance(cd/m2)	350	350	250
Touch Panel		4-wire Analog Resistive Type		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1MB)		
Working Memory		64MB		
AP Max Size for Memory		64MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type,3 year battery life)		
Max Programming Screen		7999 Pages		
Max Quantity for Macro Commands		Unlimited		
Communication Interface	Micro SD Slot	N / A		
	USB Client	YES (USB 2.0)		
	USB Host	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		
	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)	N / A (Optional)
Power	Supply Voltage	12~24VDC±10%	12~24VDC±10% / Optional: 24VDC±10% (Isolated)	
	Consumption	2W	3W	3.5W
Environment	Operating Temperature	-10°C~50°C (Optional-30°C~70°C)		
	Relative Humidity	10% ~ 90%		
	Shock (Operation)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock test)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	N / A		
	Ingress Protection	IP65		
	Cooling	Natural Cooling		
Dimension WxHxD (mm)		129.0x103x33	203.5x148.5x35	270.8x212.8x40.5
Cutout Dimension AxB (mm)		118.5x92.5	191.5x138	259.5x201.5
Net Weight (Kg)		0.23	0.55	1.1

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PK2 070 – 3 0 S T – P 1 Q 1 C00

- **Model Name**: PK2
- **LCD Size**: 043 4.3" / 070 7" / 100 10.1"
- **Serial Port**: 3 3
- **Ethernet Port**: 0 none
- **Operation**: S Standard Mode / K Front Key + USB / U Front USB / F Front Keys
- **Mode**: T Standard Back Case / E None Back Case / 0 Case from Customer / M COM2 for Power / L Low Temperature / H High Luminance
- **Material & Case Color**: P Plastic / Gray / N Openframe
- **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
- **BKRAM & Memory**: 1 128KB / 4 1024KB
- **Locks Material**: Q Metal / N Plastic
- **OEM Code**: 00 Standard / 01- FF Customer Code

PK2 Ethernet





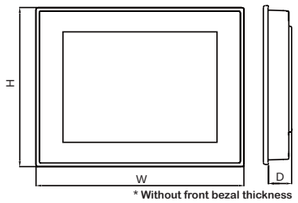
Model Name		PK2043	PK2070	PK2080
Sub-Models		31ST	31ST	31ST
Display	Size	4.3" diagonal	7.0" diagonal	8.0" diagonal
	Resolution	480*272	800*480	800*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life(hr)	20,000		
	Luminance(cd/m2)	350	350	250
Touch Panel		4-wire Analog Touch Panel		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1MB)		
Working Memory		64MB		
AP Max Size for Memory		64MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type,5 years battery life)		
Max Programming Screen		7999 Pages		
Max Quantity for Macro Commands		Unlimited		
Communication Interface	Micro SD Slot	N / A		
	USB Host	YES (USB 2.0)		
	USB Client	YES (USB 2.0)		
	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	RS485 (5-Pin Terminal)(Optional)	
	Serial (Com5)	N / A	RS485 (5-Pin Terminal)(Optional)	
	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	20W
Environment	Operating Temperature	-10°C~60°C		
	Relative Humidity	10%~90%		
	Shock (Operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 minutes shock test)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	N / A		
	Ingress Protection	IP66		
	Cooling	Natural Cooling		
Dimension WxHxD (mm)		129.0 x 103 x 33	203.5 x 148.5x 37	233×176×42.2
Cutout Dimension AxB(mm)		118.5.0 x 92.5	191.5 x 138	221 × 163.5
Net Weight (Kg)		0.23	0.55	1





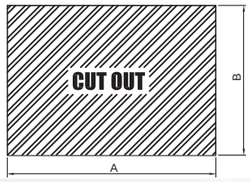

Model Name		PK2100	PK2120	PK2121	PK2150
Sub-Models		31ST	31ST	31ST	31ST
Display	Size	10.1" diagonal	12.1" diagonal	12.1" diagonal	15.0" diagonal
	Resolution	1024*600	800*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight			
	Max. Colors	16-bit			
	Backlight Life(hr)	20,000	50,000		
	Luminance(cd/m2)	250	450	500	350
Touch Panel		4-wire Analog Touch Panel	5-wire Analog Resistive Type		
CPU		RISC ARM9 32Bit			
Battery Backup SRAM		128KB (Optional: 1MB)			
Working Memory		64MB			
AP Max Size for Memory		64MB			
Data File Memory		64MB			
Real-Time Clock (RTC)		YES (Unchargeable Battery type,5 years battery life)			
Max Programming Screen		7999 Pages			
Max Quantity for Macro Commands		Unlimited			
Communication Interface	Micro SD Slot	N / A			
	USB Host	YES (USB 2.0)			
	USB Client	YES (USB 2.0)			
	Serial (Com1)	RS232 (DB9)			
	Serial (Com2)	RS422/485 (DB9)			
	Serial (Com3)	RS485 (DB9)			
	Serial (Com4)	RS485 (5-Pin Terminal)(Optional)			
	Serial (Com5)	RS485 (5-Pin Terminal)(Optional)			
	Ethernet	YES			
Front Function Keys		F1~F7 (Optional)	N / A	N / A	N / A
Audio Out (optional)		N / A			
Video In (optional)		N / A			
Front USB Host Port		N / A (Optional)	N / A	N / A	N / A
Power	Supply Voltage	24VDC±10% (Isolated)			
	Consumption	20W	20W	20W	20W
Environment	Operating Temperature	-10°C~60°C			
	Relative Humidity	10%~90%			
	Shock (Operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 minutes shock test)			
	EMI	FCC Part 15 Class A			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	N / A			
	Ingress Protection	IP66			
	Cooling	Natural Cooling			
Dimension WxHxD (mm)		270.8x212.8x 42.5	335.4×245.9×58.2	335.4×245.9×58.2	399.1×297.6×57.5
Cutout Dimension AxB(mm)		259.5 x 201.5	302 × 228	302 × 228	384.5 × 283
Net Weight (Kg)		1.1	2	2	3

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PK2 070 – 3 1 S T – P 1 Q 1 C00

Model Name
PK2

LCD Size
043 4.3”
070 7”
080 8”
100 10.1”
120 12.1”(800*600)
121 12.1”(1024*768)
150 15”

Serial Port
3 3
5 5 (Optional)

Ethernet Port
1 1

Operation
S Standard Mode
K Front Key + USB
U Front USB
F Front Keys

Mode
T Standard Back Case
E None Back Case
0 Case from Customer
M COM2 for Power
L Low Temperature
H High Luminance

Material & Case Color
P Plastic / Gray
B Plastic / Black Color
V Front Aluminum Case/ Silver
N Openframe

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

Locks Material
Q Metal N Plastic

BKRAM & Memory
1 128KB
4 1024KB

OEM Code
00 Standard
01- FF Customer Code

• Converter Accessories (For HMI only)



HMB-CER-017
(RS232)



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



HMB-CER-034
(RS232/RS485)



HMB-CER-019
(RS422/RS485)



HMB-CER-020
(RS232/RS485)



HMB-CER-021
(RS232)



HMB-CER-022
(RS232/RS422/RS485)

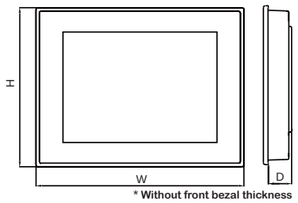
PT2 Series





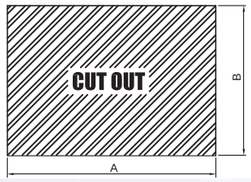
Model Name		PT2043	PT2070	PT2080
Sub-Models		41ST	51ST	51ST
Display	Size	4.3" diagonal	7.0" diagonal	8.0" diagonal
	Max.Resolution	480*272	800*480	800*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life(hr)	20,000		
	Luminance(cd/m2)	350	350	250
Touch Panel		4-wire Analog Touch Panel		
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1MB)		
Working Memory		64MB		
AP Max Size for Memory		64MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type,5 years battery life)		
Max Programming Screen		7999 Pages		
Max Quantity for Macro Commands		Unlimited		
Communication Interface	Micro SD Slot	N / A		
	USB Host	YES (USB 2.0)		
	USB Client	YES (USB 2.0)		
	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)	RS485 (5-Pin Terminal)	RS485 (5-Pin Terminal)	
	Serial (Com5)	N / A	RS485 (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	20W
Environment	Operating Temperature	-10°C~60°C		
	Relative Humidity	10%~90%		
	Shock (Operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 minutes shock test)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	YES(UL61010)		
	Ingress Protection	IP66		
	Cooling	Natural Cooling		
Dimension WxHxD (mm)		129.0 x 103 x 33	203.5 x 148.5x 37	233×176×42.2
Cutout Dimension AxB(mm)		118.5.0 x 92.5	191.5 x 138	221 × 163.5
Net Weight (Kg)		0.23	0.55	1

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PT2 070 – 3 1 S T – F 1 Q 1 C00

Model Name
PT2

LCD Size
043 4.3"
070 7"
080 8"
100 10.1"
121 12.1"
150 15"

Serial Port
4 4 (Only for 4.3")
5 5

Ethernet Port
1 1

Operation
S Standard Mode
K Front Key + USB
U Front USB
F Front Keys

Mode
T Standard Back Case
E None Back Case
0 Case from Customer
M COM2 for Power
L Low Temperature
H High Luminance

Material & Case Color
F Plastic / Silver-Black
B Plastic / Black Color
L Plastic / Wide Case
V Front Aluminum Case/ Silver
N Openframe

BKRAM & Memory
1 128KB
4 1024KB

Locks Material
Q Metal N Plastic

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

OEM Code
00 Standard
01- FF Customer Code





Model Name		PT2100	PT2121	PT2150
Sub-Models		51ST	51ST	51ST
Display	Size	10.1" diagonal	12.1" diagonal	15.0" diagonal
	Max.Resolution	1024*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life(hr)	20,000	50000	
	Luminance(cd/m2)	250	500	350
Touch Panel		4-wire Analog Touch Panel	5-wire Analog Resistive Type	
CPU		RISC ARM9 32Bit		
Battery Backup SRAM		128KB (Optional: 1MB)		
Working Memory		64MB		
AP Max Size for Memory		64MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable Battery type,5 years battery life)		
Max Programming Screen		7999 Pages		
Max Quantity for Macro Commands		Unlimited		
Communication Interface	Micro SD Slot	N / A		
	USB Host	YES (USB 2.0)		
	USB Client	YES (USB 2.0)		
	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)		
	Ethernet	YES		
Front Function Keys		F1~F7 (Optional)	N / A	N / A
Audio Out (Optional)		N / A		
Video In (Optional)		N / A		
Front USB Host Port		N / A (Optional)	N / A	N / A
Power	Supply Voltage	24VDC±10% (Isolated)		
	Consumption	20W	20W	20W
Environment	Operating Temperature	-10°C~60°C		
	Relative Humidity	10%~90%		
	Shock (Operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 minutes shock test)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	YES(UL61010)		
	Ingress Protection	IP66		
	Cooling	Natural Cooling		
Dimension WxHxD (mm)		270.8x212.8x 42.5	335.4×245.9×58.2	399.1×297.6×57.5
Cutout Dimension AxB(mm)		259.5 x 201.5	302 × 228	384.5 × 283
Net Weight (Kg)		1.1	2	3

• Converter Accessories (For HMI only)



HMB-CER-017
(RS232)



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



HMB-CER-034
(RS232/RS485)



HMB-CER-019
(RS422/RS485)



HMB-CER-020
(RS232/RS485)



HMB-CER-021
(RS232)



HMB-CER-022
(RS232/RS422/RS485)

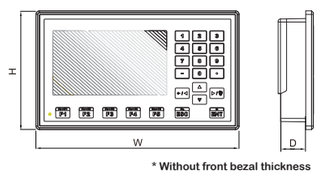
PT Series





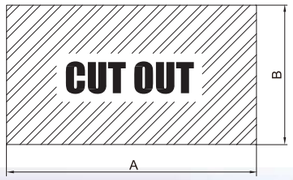

Model Name		PT043-WSP	PT043-WST	PT070-WST	PT080-TST
Sub-Models		1	1 / 4	2 / 4	2 / 4
Display	Size	4.3"diagonal	4.3"diagonal	7"diagonal	8"diagonal
	Resolution	480*272	480*272	800*480	800*600
	Type	TFT LCD LED Backlight			
	Max. Colors	16-bit			
	Backlight Life(hr)	20,000			
	Luminance(cd/m2)	250	400	300	250
Touch Panel		4-wire Analog Resistive Type			
CPU		RISC ARM9 32Bit			
Battery Backup SRAM		128KB (Optional: 1MB)			
Working Memory		32MB		64MB	
Maximum Memory for AP		8MB	Sub-Model1:8MB Sub-Model4:8MB+128MB (NAND Flash)	8MB+128MB (NAND Flash)	
Real-Time Clock(RTC)		YES			
Max Programming Screen		7999 Pages			
Max Quantity for Macro Commands		Unlimited			
Communication Interface	Micro SD Slot	N / A	Sub-Model 4: YES	YES	
	USB Host	YES (1.1)			
	USB Client	YES (2.0)			
	Serial(Com1)	RS232/422/485			
	Serial(Com2)	RS422 / 485	A-RS422 / 485 B-RS232 / 485 C-RS232 with RTS&CTS		
	Serial(Com3)	RS232 (Optional:RS485)			
	Serial(Com4)	N / A			
	Ethernet	N / A	Sub-Model 4: YES		
Front Function Keys		23-Keys	N / A	6-Keys (Optional)	N / A
Audio Out (Optional)		N / A			
Video In (Optional)		N / A			
Front USB Host Port		N / A	N / A	USB1.1 (Optional)	N / A
Power	Input	24VDC±10% Isolated			
	Consumption	10W		20W	
Environment	Operating Temperature	-10°C~60°C			
	Relative Humidity	10% ~ 90%			
	Shock (O peration)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock testing)			
	EMI	FCC Part 15 Class A			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	N / A	YES (UL508)		
	Ingress Protection	IP66			
	Cooling	Natural Cooling			
Dimension WxHxD (mm)		173.0x101.0x30.5	130.0x106.2x47.3	188x143.3x35.5	233x176x42.2
Cutout Dimension AxB(mm)		160.5x89.5	119.0x93.0	175x132.5	221x163.5
Net Weight (Kg)		0.3	0.33	0.57	1

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PT 043 – W S P 1 B – F 1 R 1 C00

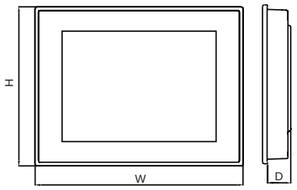
- **Model Name**: PT T-Series
- **Resolution**: W 480x272
- **LCD Size**: 043 4.3”
- **Operation**: S Standard Mode
- **Mode**: K Key Model; P Touch Panel+ Key Model
- **Sub Model**: 1 With RTC
- **Com2**: A RS422/485
- **Material & Case Color**: F Plastic / Silver-Black; B Plastic / Black Color
- **Touch & PCB Coating**: 1 Built-in 5V Touch I.C.; 2 Built-in 12V Touch I.C.; 3 Enhance PCB Coating; 5 5V Codec Touch I.C.; 6 12V Codec Touch I.C.
- **Com3 Spec. & Temp.**: R Plastic: Com3 RS232 (-10˚C ~ 60˚C) Alum.(12.1”&15”): Com3 RS232 (-20˚C ~ 60˚C); Q Plastic: Com3 RS485 (-10˚C ~ 60˚C) Alum. (12.1”&15”) : Com3 RS485 (-20˚C ~ 60˚C)
- **BKRAM & Memory**: 1 128KB BKRAM; 4 1MB BKRAM
- **OEM Code**: 00 Standard; 01- FF Customer Code





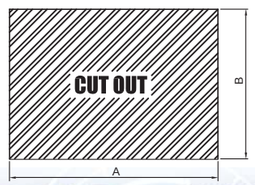

Model Name		PT100-WST	PT104-TST	PT121-TST	PT150-XSD
Sub-Models		2 / 4	2 / 4	4	4
Display	Size	10.1"diagonal	10.4"diagonal	12.1"diagonal	15"diagonal
	Resolution	1024*600	800*600	800*600	1024*768
	Type	TFT LCD LED Backlight			
	Max. Colors	16-bit			
	Backlight Life(hr)	20,000			
	Luminance(cd/m2)	150	400	450	350
Touch Panel		4-wire Analog Resistive Type		5-wire Analog Resistive Type	
CPU		RISC ARM9 32Bit			
Battery Backup SRAM		128KB (Optional: 1MB)			
Working Memory		64MB			
Maximum Memory for AP		8MB+128MB (NAND Flash)			
Real-Time Clock(RTC)		YES			
Max Programming Screen		7999 Pages			
Max Quantity for Macro Commands		Unlimited			
Communication Interface	Micro SD Slot	YES			
	USB Host	Yes (1.1)			
	USB Client	Yes (2.0)			
	Serial(Com1)	RS232/422/485			
	Serial(Com2)	A-RS422 / 485 B-RS232 / 485 C-RS232 with RTS&CTS			
	Serial(Com3)	RS232 (Optional:RS485)			
	Serial(Com4)	N / A			
	Ethernet	Sub-Model 4: YES		YES	YES
Front Function Keys		7-Keys (Optional)	N / A	N / A	N / A
Audio out (optional)		N / A			
Video in (optional)		N / A			
Front USB Host Port		USB1.1 (Optional)	USB 1.1 (Optional)	N / A	N / A
Power	Input	24VDC±10% Isolated			
	Consumption	20W			
Environment	Operating Temperature	-10°C~60°C			
	Relative Humidity	10% ~ 90%			
	Shock (operation)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock testing)			
	EMI	FCC Part 15 Class A			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	YES (UL508)		N / A	YES(UL508)
	Ingress Protection	IP66			
	Cooling	Natural Cooling			
Dimension WxHxD (mm)		270.8x212.8x42.5	270.8x212.8x42.5	335.4x245.9x58.2	399.1x297.6x57.5
Cutout Dimension AxB(mm)		259.5x201.5	259.5x201.5	302x228	384.5x283.0
Net Weight (Kg)		1.2	1.25	2	3

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PT 070 – W S T 4 B – F 1 R 1 C00

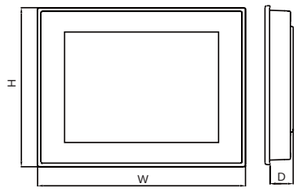
- **Model Name**: PT T-Series
- **Resolution**: T 800x600; W 480x272/800x480 1024x600; X 1024x768
- **LCD Size**: 043 4.3”; 070 7”; 080 8”; 100 10.1”; 104 10.4”; 121 12.1”; 150 15”
- **Operation**: S Standard Mode; K Front Key + USB; U Front USB; X Extension Key; F Front Key
- **Mode**: T 4-wires Touch; D 5-wires Touch (12.1”&15” only); K Key Model
- **Sub Model**: 0 No Battery(No BKRAM); No RTC; 1 With RTC; 2 With 128MB NAND Flash / Micro SD Slot; With RTC; 3 1 + Ethernet Port; 4 2 + Ethernet Port; 5 4 + Audio Out
- **Com2**: 0 Without Com2; A RS422/485; B RS232/485; C RS232(RTS/CTS)
- **Material & Case Color**: F Plastic / Silver-Black; W Plastic / Ivory-White Color; L Plastic / Silver-Black (Wide); B Plastic / Black Color; V Front Aluminum Case/ Silver; U Front Aluminum Case/ Silver-Black; N Openframe
- **Touch & PCB Coating**: 1 Built-in 5V Touch I.C.; 2 Built-in 12V Touch I.C.; 3 Enhance PCB Coating; 5 5V Codec Touch I.C.; 6 12V Codec Touch I.C.
- **Com3 Spec. & Temp.**: R Plastic: Com3 RS232 (-10˚C ~ 60˚C) Alum.(12.1”&15”): Com3 RS232 (-20˚C ~ 60˚C); Q Plastic: Com3 RS485 (-10˚C ~ 60˚C) Alum. (12.1”&15”) : Com3 RS485 (-20˚C ~ 60˚C); H Alum. (12.1”&15”) : Com3 RS232 (-25˚C ~ 70˚C); G Alum. (12.1”&15”) : Com3 RS485 (-25˚C ~ 70˚C)
- **BKRAM & Memory**: 1 128KB BKRAM; 4 1MB BKRAM
- **OEM Code**: 00 Standard; 01- FF Customer Code

PX Series



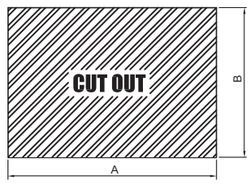
Model Name		PX070-WST	PX080-TST	PX104-TST	PX121-XSD	PX150-XSD
Sub-Models		4 / 5 / 6	4 / 5 / 6	4 / 5 / 6	4 / 5 / 6	4 / 5 / 6
Display	Size	7" diagonal	8" diagonal	10.4" diagonal	12.1" diagonal	15" diagonal
	Resolution	800*480	800*600	800*600	1024*768	1024*768
	Type	TFT LCD LED Backlight				
	Max. Colors	16-bit				
	Backlight Life(hr)	20,000			50,000	
	Luminance(cd/m2)	300	250	400	500	500
Touch Panel		4-wire Analog Resistive Type			5-wire Analog Resistive Type	
CPU		RISC ARM11 800MHz				
Battery Backup SRAM		1MB				
Working Memory		256MB				
Maximum Memory for AP		1GB				
Real-Time Clock(RTC)		YES				
Max Programming Screen		7999 Pages				
Max Quantity for Macro Commands		Unlimited				
Communication Interface	Micro SD Slot	YES				
	USB Host	YES (1.1)				
	USB Client	YES (2.0)				
	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)	Sub Model 6 : RS422 / 485 (Isolated)				
	Ethernet	YES				
Front Function Keys		N / A				
Audio Out (Optional)		Sub Model 5&6: YES				
Video In (Optional)		Sub Model 6: YES				
Front USB Host Port		N / A				
Power	Supply Voltage	24VDC±10% Isolated				
	Consumption	20 W				
Environment	Operating Temperature	-25°C~70°C				
	Relative Humidity	10% ~ 90%				
	Shock (Operation)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock test)				
	EMI	FCC Part 15 Class A				
	CE	EN61000-6-2, EN61000-6-4				
	UL Certification	YES (UL508)				
	Ingress Protection	IP66				
	Cooling	Natural Cooling				
Dimension WxHxD (mm)		213.6x158.6x51	241.6x184.6x56.2	280.3x222.3x56.5	317.4x243.8x72.2	399.1x297.6x71.5
Cutout Dimension AxB(mm)		191.5x137.5	221x163.5	259.5x201.5	302x228.0	384.5x283.0
Net Weight (Kg)		0.61	1.1	1.41	2.2	3

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• Product Naming Rule

PX 070 – W S T 4 B – U 5 R 4 C00

Model Name
PX PX-Series

Resolution
T 800x600
W 800x480/1024x600
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-wires Touch
D 5-wires Touch
(12.1"&15" only)

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

Com2
A RS422/485
B RS232/485
C RS232(RTS/CTS)

Material & Case Color
F Plastic / Silver-Black
B Plastic / Black Color
U Front Aluminum Case/ Silver-Black

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

BKRAM & Memory
4 1MB BKRAM

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)

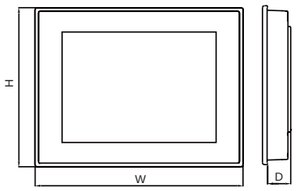
OEM Code
00 Standard
01- FF Customer Code

GX Series



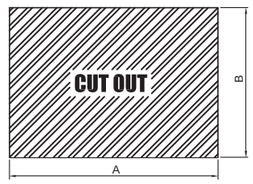
Model Name		GX607-WST	GX608-TST	GX610-TST	GX612-XSD	GX615-XSD
Sub-Models		4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Display	Size	7" diagonal	8" diagonal	10.4" diagonal	12.1" diagonal	15" diagonal
	Resolution	800*480	800*600	800*600	1024*768	1024*768
	Type	TFT LCD LED Backlight				
	Max. Colors	16-bit				
	Backlight Life(hr)	20,000			50,000	
	Luminance(cd/m2)	300	250	400	500	350
Touch Screen		4-wire Analog Resistive Type			5-wire Analog Resistive Type	
CPU		RISC ARM11 800MHz				
Battery Backup SRAM		1MB				
Working Memory		256MB				
Maximum Memory for AP		1GB (64MB for Bulit-in WinCE V6.0 R3 OS)				
Real-Time Clock(RTC)		YES				
Max Programming Screen		7999 Pages				
Max Quantity for Macro Commands		Unlimited				
Communication Interface	Micro SD Slot	YES				
	USB Host	YES (USB 1.1)				
	USB Client	YES (USB 2.0)				
	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				
	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	20 W				
Environment	Operating Temperature	-25°C~70°C				
	Relative Humidity	10% ~ 90%				
	Shock (Operation)	10 ~ 55Hz (X,Y,Z direction, 1G, 30 minutes shock test)				
	EMI	FCC Part 15 Class A				
	CE	EN61000-6-2, EN61000-6-4				
	UL Certification	YES (UL508)				
	Ingress Protection	IP66				
	Cooling	Natural Cooling				
Dimension WxHxD (mm)		213.6x158.6x37	241.6x184.6x42.2	280.3x222.3x42.5	317.4x243.8x58.2	399.1x297.6x57.5
Cutout Dimension AxB(mm)		191.5x137.5	221x163.5	259.5x201.5	302x228.0	384.5x283.0
Net Weight (Kg)		0.61	1.1	1.41	2.2	3

• Outlet Dimension



* Without front bezal thickness

• Cut Out



• GX Product Naming Rule

GX 612 – X S D 4 B – U 6 Q 4 C00

Model Name
GX GX Series (WinCE Panel)

Resolution
T 800x600
W 800x480/1024x600
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-wires Touch
D 5-wires Touch
(12.1"&15" only)

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

Com2
A RS422/485
B RS232/485
C RS232(RTS/CTS)

Material & Case Color
F Plastic / Silver-Black
B Plastic / Black Color
U Front Aluminum Case/ Silver-Black

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

BKRAM & Memory
4 1MB BKRAM

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)

OEM Code
00 Standard
01- FF Customer Code

Power Supply

(UL only 2A/4A)



Model NO.	DPS-02A-D24	DPS-04A-D24	DPS-05A-D24	DPS-10A-D24
Input Voltage	100-240VAC	100-240VAC	100-240VAC	180-264VAC
Output Voltage	24VDC	24VDC	24VDC	24VDC
Output Current	2A	4A	5A	10A
Output Power	48W	96W	120W	240W
O/P Voltage Adjustment	23.6-27.4V	23.6-27.4V	21.6-29.2V	24-27V

Bundle Selling Model



Model NO.	DPS-30W-DC24	DPS-60W-DC24
Input Voltage	100-240VAC	100-240VAC
Output Voltage	24VDC	24VDC
Output Current	1.25A	2.5A
Output Power	30W	60W
O/P Voltage Adjustment	22.3-27.2V	23.6-27.4V

Communication Accessories



PIM02
Isolated Communication Converter



UR25
USB Converter



UR43
USB-to-Serial Cable



FCB-XD0-023
USB Download Cable for HMI



PanelExpress is a Windows based HMI runtime. It enables you to utilize the resources of a PC or a WinCE panel PC, such as computation power, multimedia, and bigger screen, to realize a high-end sophisticated HMI.
Now the released version for Windows OS can be used on PC, and the one for WinCE OS can be used on GX Series HMI products. Thanks to the cross platform flexibility offered by Panel Express, switching hardware for performance becomes an easy job.

• General Features

- Cost effective Windows based HMI runtime.
- Over 50 of screen objects can fulfill all types of HMI operating and viewing needs for machine automation.
- Provides a complete set of useful marco commands. Marco programs can be embedded in object, screens, and the global process.
- No limitations on intermal I/O points used in an application.
- Supports over 350 PLC communication protocols.
- Supports data collection, alarm monitoring, recipe handling, and operation logging.
- Monitors up to 64 discrete alarm blocks and 64 analog alarm blocks. Up to 65535 alarms can be defined.
- Supports 16 communication links. (WinCE OS only supports 8 communication links)
- Supports USB Camera.

• Advanced Features(Optional / For Windows OS only)

- Allows up to 248 communication links.
- Provides Excel/PDF report generator.
- Makes multi-client and multi-server application scenarios possible with HMI Server/Client supported.
- Supports My SQL ; SQL ; Access and Oracle.
- Supports remote monitoring and control by Android APP.
- Built-in MQTT Client.
- Supports VB Script and JAVA Script.

• Product Naming Rule

P2W-SPT – B 03 – 016 00 DRV

- **Software** **Supplier Code**
- **Type of License**
  - A Win CE Activation
  - B Windows USB Dongle
  - C Windows Online Activation (Single license)
  - F Windows Online Activation (Floating license)
- **I/O Tags**
  - 03 300
  - 15 1500
  - 30 3000
  - 50 5000
  - 99 9900 (Max.)
- **OEM Code**
- **Link Number**
  - 016 16-links
  - 032 32-links
  - 048 48-links
  - 064 64-links
  - ...
  - 248 248-links(Max.)
- **Optional Features**
  - D Database
  - R Report
  - V Visualization

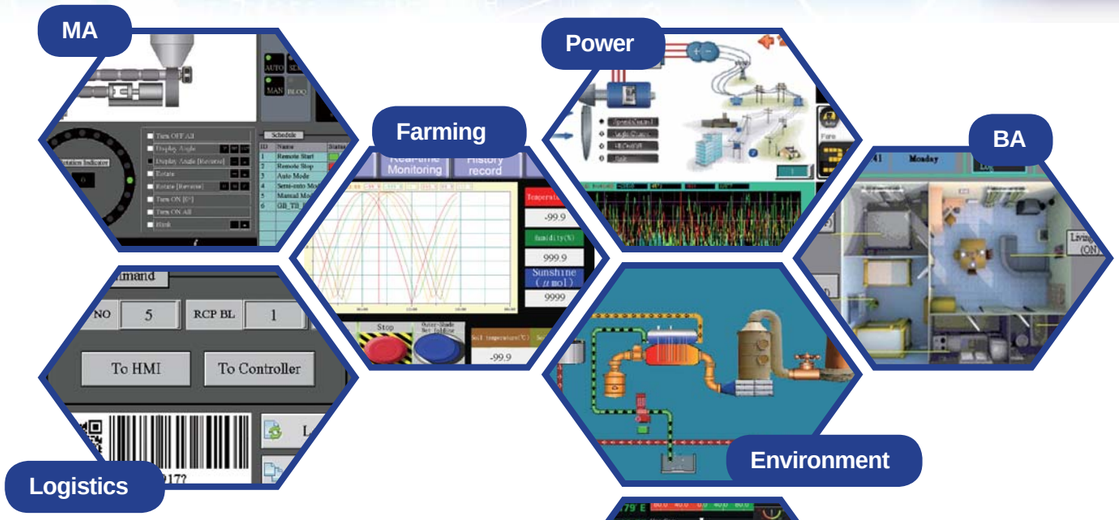
HMI Development Software - PM Designer

Powerful

Innovative

Friendly

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 Data Transfer Helper (DTH); recipes editors and text editors. 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.



Shortcut & Execution Toolbar

Icon Display Improves Work Efficiency

- Shortcut icons designed to show objects, figure type, and operations improving work efficiency.
- Frequently used objects and figures can be registered as favorites.

Project Workspace

An Intuitive Tree Display Makes Runtime Development Easy

- Easy to create, develop, and manage project property efficiency by project-based management worksheets.

Screen Design Worksheet

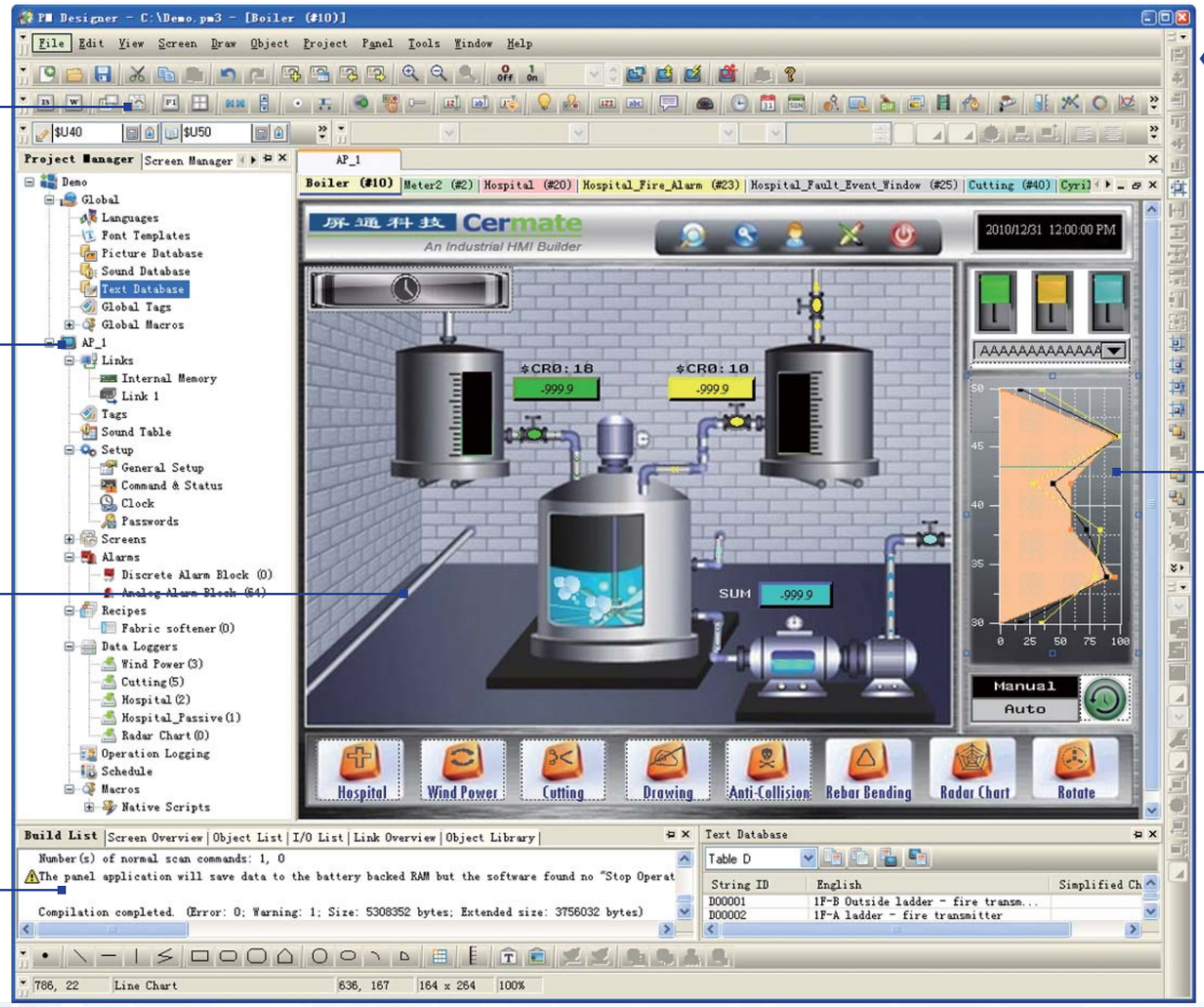
Smart Screen Design

- Easy to view screens during runtime development,adjustable based on user-oriented application.

Message Build List

Compile & Simulate Results

- By double clicking on the error message after compilation it will automatically jump to the place where the problem is.



Dialog Box

An Intuitive Tree Display Makes Runtime Development Easy

- Easy to create, develop, and manage project property efficiency by project-based management worksheets.



Driver List

Serial port communication

Brand	Model
A&D Company Ltd.	AD-4401 Weighing Indicator
Advantech	Null PLC
	ADAM (Modbus RTU)
	PCM-27D24DI(16DI/8DO)
	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)
	Modicon Device/Slave (RTU, Quantum)
	Modbus Master (RTU; Non-volatile slave data)
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-ES/SS/EP/EH (No block read)
	DVP-SV(RTU)
	DVP-SV (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)
Eura Drivers Electric Corp.	Eura EF1S/1N
	Eura EF2N
	Eura Inverter (Modbus RTU)
	Eura Inverter (Modbus 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)
	Eura Servo Drive (Modbus ASCII)
	Eura HFR1000 (Modbus RTU)
	Eura HFR1000 (Modbus ASCII)
	Eura HFR2000 (Modbus RTU)
	Eura HFR2000 (Modbus ASCII)
Fatek Automation Corp.	FATEK FBs/FBe
Festo Corporation	FPC/FEC Series
Fuji Electric Corporation	NB Series
	PXR Series Temperature (RTU)
	FRENIC-VP (RTU)
	FRENIC5000G11/P11 (Fuji)
	FRENIC-Mini/Eco/Multi/Mega(RTU)
FVK Automation Co., Ltd.	F Series Inverter
GE Corporation	90 Series SNP
	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)
	AD Series Servo Drives
Hitech	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
	CNC Controller (GCODE)
Inovance Control Technology Co., Ltd.	H2u (CPU Port)
	MD Series Inverter (RTU)

Brand	Model
Inovance Control Technology Co., Ltd.	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
	KV-L20
	KV-3000
Koyo Electric Corp.	K Sequence Series
	Direct Logic Series
	Direct 06 Series (K Sequence)
	Direct 06 Series (DirectNET)
LG Industrial Systems	Master-K Series CNet
	K120S CPU Port
	Master-K Loader
	GLOFA GM Series CNet
	XBM-DR16S
	GLOFA GM Loader
	XEC/XGI CNet
	XGT/XGK (CPU)
	XGL-C22A
LSIS Co. Ltd.	XGB XBM S-series (CPU)
	XGB - XBC E (CPU)
	XGB - XEC H (CPU)
	XGB - XBC E (Dedicated Protocol)
	XGB XBCS - CNet
Matsushita Electric Works	FP Series Computer Link
	FP-X Series
	VF0C Series Inverter
	VF100 Series Inverter
Micro Trend Corp.	UTC400P+
	UTC400P+ (for 64)
	UTC Servo Controller
MIKOM ELECTRICAL TECHNOLOGY	MX Series PLC
Mitsubishi Electric Corp.	Melsec-FX (CPU Port)
	Melsec-Q/QnA (Link Port)
	Melsec-Q00/01 (CPU Port)
	Melsec-Q02H (CPU Port)
	Melsec-Q02 (CPU Port)
	Melsec-Q02U (CPU Port)
	Melsec-Q00J (CPU Port)
	Melsec-FX2n (CPU Port)
	Melsec-FX3U (CPU Port)
	Melsec-FX3U (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)
	Melsec-Q01U (CPU Port)
	Melsec-FX5U
Modicon Corp.	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)
	Modbus Device/Slave (RTU; 6-digit Addresses)
	Modbus Master (ASCII; Non-volatile slave data)
Omron Corporation	Sysmac C Series Host Link
	Sysmac CV Series Host Link

Brand	Model
Omron Corporation	Sysmac CVM Series (Host Link)
	Sysmac CS/CJ Series Host Link
	Sysmac CS/CJ Series (FINS)
	Sysmac CP Series (FINS)
	E5CN Temperature (CompoWay/F)
	E5CN Temperature (Modbus RTU)
	EJ1 Temperature (CompoWay/F)
	KM100 (CompoWay/F)
	3G3MV Inverter (RTU)
Panasonic Corporation	FP Series
	MINAS A4 Series
	MINAS A5 Series (RS485)
PanelMaster	General Device (COM)
	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
Parker Hannifin S.p.A.	Compax3
	HID Series (X4 RS232 Port)
	SLVDN Series (X1 RS422/485 Port)
RKC Instrument Inc.	MA900/CB900 Series (RTU)
	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)
	Simatic S7-300 (PC Adaptor)
	Simatic S5 3964R
	Simatic S5
Taiwan Instrument & Control Co., Ltd.	TAIE FY100/900 Series (RTU)
	TAIE FY100/900 Series (TAIE)
	FY series DIGITAL PID CONTROLLER
Teco Electric & Machinery Co.,Ltd.	L510s AC Inverter
	E510s AC Inverter
	A510s AC Inverter
	F510s AC Inverter
	JSDG2/G2s AC Servo
	JSDE2 AC Servo
	JSDAP AC Servo
	TSTEP AC Servo
	AP Series PLC
	SG2 Smart Relay
TOHO Electronics Inc.	TTX-700 (Modbus RTU)
	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
	VS Series
Yamatake Corporation	SDC35/36 Temperature (RTU)
	SDC35/36 Temperature (ASCII)
	MA500 FA Controller (ECL Host)
	DMC10 Controller (RTU)
	DMC10 Controller (ASCII)
	MX30
	MX50
Yaskawa Corporation	Σ- Ⅴ /Σ- Ⅶ Series AC Servo
	MP Series Motion Controller
	A1000 / V1000 AC Inverter
Yokogawa Electric Corporation	FA-M3 Series (CPU Port)

Note: * This Driver List is only suitable for software V2.1.7.00 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 communication

Brand	Model
Advantech	BACnet/IP
	HW BACnet/IP
	ADAM-6000 (ModBus TCP/IP)
Allen Bradley	MicroLogix 1000/1500 via 1761-NET-ENI
	MicroLogix
	CompactLogix/ControlLogix Ethernet/IP Tag
	Micro 820/850
Astraada HMI	ModBus Master (TCP/IP)
	ModBus Device/Slave (TCP/IP)
	ModBus Master (TCP/IP; Type 2)
	ModBus Device/Slave (TCP/IP; Type 2)
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)
DEIF A/S	TCP/IP Modbus (Ethernet port)
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
	KV-7000
Lenze Drive Systems GmbH	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 (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 Client Driver
	OPC DA Client Driver
Parker Hannifin S.p.A.	6K Ethernet Protocol
	6KFast Status Update
PORIS	XC ModBus TCP
Saia Burgess	PCD Series (Ether-S-Bus)
	PCD Series (Ether-S-Bus) (Sub-Link)
Schneider Electric	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)
	LOGO (Ethernet)
TPM	EPC-1000
TRIO Motion Technology	MC4N (32-bit Mode)
WAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750
	WAGO-I/O-SYSTEM 750-820x
Yaskawa Corporation	ModBus Device/Slave (TCP/IP)
	Extended MEMOBUS
	MP Series Ethernet (Extension)
Yokogawa Electric Corporation	FA-M3 Series (UDP)
	FA-M3 Series (TCP)