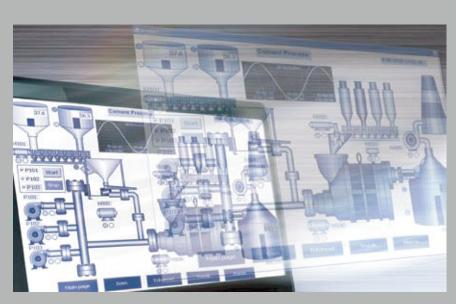




Human Machine Interface Operator Interface

Smartpanels Operator interfaces



human machine interfaces for all industries

Brainchild Electronic Co., Ltd. was established in 1977. We have been the largest temperature controller maker in Taiwan since then, and the only maker of paperless recorder in Taiwan since 2003. In spring 2011 Brainchild started to introduce new product line of human machine interfaces with very high performance/price ratio to markets.

TUV Rheinland certified our factory IS09001. A CSA certified laboratory is used to do CSA tests, plus UL and CE tests. The strong and experienced R&D team helps us to offer customers innovative and state-of-art industrial instruments. We have won good reputation by supplying quality products with better features at competitive prices. The sales network has covered over 85 countries. It is our philosophy in pursuit of perfection through continuous improvement.

At the moment we have product lines of human machine interfaces, recorders, temperature controllers, data acquisition IO modules and networking products. To keep on supporting our customers, we will continue to invest and develop new instruments surround factory automation.

Hardware features

Five models in four sizes of 4.3", 7", 10" & 15"

Two low-cost models HMI 450 & 730 with optional Ethernet and SD slot

Three high-performance HMI 750 ,1050 & 1550 with standard Ethernet and SD slot

Touch panels, higher resolution and all in 65,536 colors

USB host, 2 Serial ports

Networks of MPI / Profibus-DP, ProfiNet, DeviceNet, EtherNet/IP, CANopen, EtherCAT, BACnet/IP, CC-Link

Advanced and reliable WinCE 6.0* platform with more features for efficient and sophisticated control solutions

HMI 750, 1050, 1550 standard aluminum front bezels, optional stainless steel fronts for food, beverage & pharmaceutical industries

Rugged Stainless Steel front bezels with IP66K for high protection on dust & water, and polished surface for easy cleaning

Large memory of 128 MB Flash, 128/256MB SDRAM, sound input + output, 3D1+3D0

USB Host port used for Keyboard, USB stick and Mouse

Horizontal or vertical installation and display

Wide range of power supply 11-36 VDC or 90-250 VAC

LED backlight for even-color displays and long lifetime

Open WinCE 6.0[®] Core & Professional panels for OEM business

Open Panel Option

Open WinCE 6.0 panels with WinCE Core or WinCE Professional

BSP & SDK for OEM applications

Run 3rd party applications like SCADA & Visual Studio Applications

Customized faceplate for private labelling

Windows CE image update tools available for quick upgrade of the operating system

OEM Tools (auto run maker) for configuring start-up image & application, creating desktop shortcut, registry editing, etc.



Smartpanels Specifications



HMI 450

30,000 hrs

LED

Yes

Yes

4.3"

HMI 730

HMI 750

Model Display

Size Resolution (W x H in pixels) Display type Colors Touch screen Type Active Display Area (W x H mm) Display position MTBF backlight at 25C Backlight Brightness Adjustment Screen Saver Language Fonts Main Hardware Processor, CPU speed Flash Memory (ROM) SDRAM (RAM) Operation System Real Time Clock Buzzer Sound input + output, 3DI+3DO SD card slot Interfaces RS232C, DB9 Malle RS232C / RS422 / RS485, DB25 Female Ethernet 10/100 Mbps, RJ45 USB Host Other Networks (all slaves) Profibus-DP, ProfiNet DeviceNet, EtherNet/P CANopen CC-Link **General Specifications** Power Supply Consumption (w/o sound output) Power on LED indicator Outer dimensions (W x H x D mm) Mounting depth (mm)

Panel cutout (W x H mm)

Stainless Steel front bezel (option)

Front bezel, housing

Protection

Installation

Net Weight (Kgs)

TFT, wide touch screen 65,536 Resistive analog 95 x 54 Both horizontal & vertical

480 x 272 (wide screen)

7"

800 x 480 (wide screen) TFT, wide touch screen 65,536 Resistive analog 152 x 91 Both horizontal & vertical 50,000 hrs I FD Yes Yes

7"

800 x 480 (wide screen) TFT, wide touch screen 65,536 Resistive analog 152 x 91 Both horizontal & vertical 50,000 hrs I FD Yes Yes

ARM Cortex-A8, 1Ghz

Unicode including Simplified and Traditional Chinese, Japanese & Korean

1

1

51

N.A.

1.2Kg

197⁺¹ x 141⁺¹

Panel Mount

IP65(front), IP20(rear)

Plastic(front), plastic(rear)

ARM Cortex-A8, 667Mhz 128 MB 256 MB WinCE 6.0[@] Yes Yes N.A. Option 1 1 Option Option Option Option Option 11-36VDC 10W Yes 140 x 116 x 57 51 123⁺¹ x 99⁺¹ IP65(front), IP20(rear) Plastic(front), plastic(rear) N.A. Panel Mount

ARM Cortex-A8, 667Mhz 128 MB 256 MB WinCE 6.0[@] Yes Yes N.A. Option Option N.A. N.A. N.A. N.A. 11-36VDC, 90-250VAC 12W Yes 212 x 156 x 57

128 MB 256 MB WinCE 6.0® Yes Yes Option Yes 1 1 1 1 Option Option Option Option 11-36VDC, 90-250VAC 13W Yes 212 x 156 x 57 51 197⁺¹ x 141⁺¹

IP65(front), IP20(rear) Plastic(front), plastic(rear) Option, IP66K Panel Mount 1.4Kg

0.5Kg

HMI 1060

10" 1280 x 800 (wide screen) TFT, wide touch screen 65,536 Resistive analog 217 x 135 Both horizontal & vertical 50,000 hrs LED Yes Yes

ARM Cortex-A8, 1Ghz 128 MB 256 MB WinCE 6.0[®] Yes Yes Option Yes

Option Option Option Option

11-36VDC, 90-250VAC 15W Yes 275 x 179 x 63 51 197⁺¹ x 141⁺¹ IP65(front), IP20(rear) Plastic(front), plastic(rear) N.A. Panel Mount 1.4Kg

HMI 1550

15" 1024 x 768 TFT, wide touch screen 65,536 Resistive analog 304 x 228 Both horizontal & vertical 50,000 hrs CCFL Yes Yes

ARM Cortex-A8, 1Ghz 128 MB 256 MB WinCE 6.0[@] Yes Yes Option Yes 1 1 2 1 Option Option Option Option 11-36VDC, 90-250VAC 27W Yes

400 x 310 x 56 50 367⁺¹ x 289⁺¹ IP65(front), IP20(rear) Aluminum(front), metal(rear) Option, IP66K Panel Mount 5.1Kg

Operating temperature

0°C to 50°C

Storage temperature

-20°C to 60°C

Humidity

0% to 90<u>%RH(無冷凝)</u>

Vibration resistance

9 to 150Hz, 9.8m/S², X, Y&Z directions 1<u>0 times (100 min.)</u>

Operating Shock resistance

15<u>g at 11 msec</u>

Altitude

Safety standards

C € 00000 RoHS 🖄

Panel Studio software features



- Free, powerful and friendly HMI editing software ۲
- 2-editing styles in both GUI wizard and Property grid
- Lots of fine-made objects of Meters, Sliders, Digital LED, Check boxes, Combo • boxes, Number Up/Down, etc.
- 112 basic symbols, high-resolution, vector format, some in 6 colors, flipped and rotatable in 4 directions in design time
- Basic symbols support moving and 32 band run-time animation on background color, visibility, flip, rotation
- Optional Symbol Factory with symbols over 4K, flipping, rotating in 4 directions, • changing color in design time
- Symbol Factory control allows 50 band run-time animation, each band in different colors or blinking
- Picture box to import pictures in bmp, wmf, jpg, gif & png formats
- Dynamic objects like animated bar graph, button, bit lamp, 32-bit word lamp, drawing tools, etc.
- Drawing tools like rectangle, ellipse, etc., maximum 32 bands, each band with visible control, filling color & blinking
- Drawing tools like rectangle, ellipse, etc., with run-time animation like filling, moving • & sizing
- Many PLC drivers supported on both Serial & Ethernet ports via OPC server
- Data exchange between two different PLCs as a gateway
- Diagnostic tools for drivers like OPC server & OPC client to test communications between PC and PLC directly
- IO poll groups, different scan rates for PLC tags, possible to scan tags always or only • tags on active page
- Retentive and non-retentive internal variables available for mathematical calculation

- 3 types of screens in Page, Template and Pop-up
- The Scheduler to trigger actions at specific time or time intervals
- Recipe management to create data elements and data records in design time
- Recipe viewer to edit data records and transfer setpoints from HMI to PLC and vice versa in run-time
- Real-time alarms in 7 types, historical alarms and alarm management in maximum 9 groups
- Alarm banner to display the latest alarm in single line
- Real-time trends and historical trends, with maximum 24 pens for each component
- Bit-wise alarms for integer tag received from PLC
- Data stored in internal memory or optional SD card
- Data logging by 4 methods, 2 types and 10 rates
- Data acquisition software Historical Viewer to view historical data and alarms on PC
- Security management used for maximum 100 users divided by 9-authority levels
- Script/Macro programmed in C language for mathematical and logical calculation
- Run-time user administration done by user-view component
- Software in multilingual, easy for local application engineers
- Multilingual on the display, easy for users, 30 languages
- Online simulation to test application program quickly by simulating it on PC while connecting with PLC
- Offline simulation to test application program by simulating it on PC without connecting with PLC
- Copy screens between projects to save developing time
- Copy/paste animation for drawing tools like rectangle, ellipse etc., to save developing time
- Project compiler to verify the application under developing before downloading to HMI
- Message libraries via Word Lamp with animations to display various messages based on different values
- Advanced buttons with animation in 3 kinds of actions namely clicked, pressed and released with timing
- Bit-wise animation used with bit lamp for integer tag to show status of integer tag received from PLC
- Multiple sessions to open projects in design time on PC
- Handy components for tables to quickly draw rows and columns
- Project explorer and Tool box to quickly view hierarchy of all objects in software
- Flexible to call many system functions from buttons, events, schedulers, scripts, etc.
- To download application program efficiently from PC to HMI via Ethernet port, or via USB stick
- Printer drivers, Universal serial driver and HMI Remote Viewer

Editing tools & style

| File Edit Format View Obje | cts Tools Help |
|---------------------------------|---|
| 🛅 - 🚵 🔒 I 🕥 🕲 I % 🖻 🛝 🗡 I 🛲 I 🛄 | 🟥 🛗 🛌 🕨 🔕 💽 100% 🔹 💷 |
| 🍞 🗐 🔒 🖹 후 킠 🗇 😐 애 🗔 🗓 원 | 出意 言言 다 다 다 다 다 다 다 |
| | |
| 🔜 Rect1 Configuration | Appearance Project Explorer Setting |
| | LineWidth 1 |
| General Animation Bands Common | Behavior Generation |
| Appearance | Animation False;0, 0;0 |
| LineWidth | Bands (Collection) |
| 1 | Data |
| | TagBinding |
| TagBinding | Design Security Security Security Security Security |
| | (Name) Rect1 |
| | Locked False Project Explorer |
| GUI Wizard | Property grid |

To edit properties of objects via user-friendly GUI Wizard or

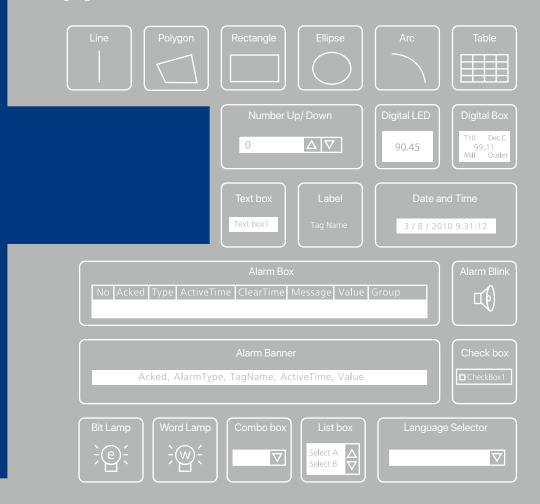
Tabbed pane



To quickly retrieve tools in project explorer can be done by using tabbed pane. For example, once user has edited three pages, tag database, alarms, Scheduler, all these are available in tabbed pane for quick retrieval from Main window afterwards.

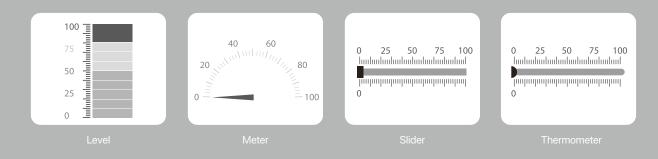
Basic objects

Line, Polygon, Rectangle, Ellipse, Arc, Table, Numerical Up/Down, Digital LED, Digital Box, Text box, Label, Date/Time Label, Alarm Box, Alarm banner, Alarm Blink, Button, Bit lamp, Word lamp, Check box, Combo box, List box, Recipe view, User view and Language selector



Enhanced objects

Level, Meter, Slider, Thermometer, Bar box, Scale, Historical Trends, Real Time Trends, Picture box



Basic symbols

in basic software Panel Studio

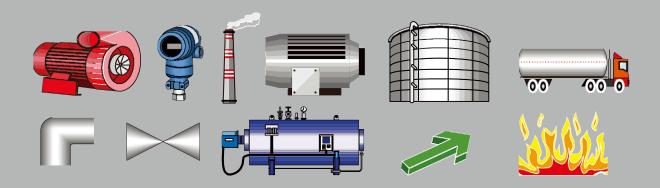
Free basic symbols indude 112 different ones divided by 18 popular categories

All symbols are made in high resolution, vector wmf format in less memory.

Symbols of 10 categories are made in 6 colors of red, green, yellow, blue, brown and grey.

Transparent or color background can be selected for any symbols.

Run-time animation: moving, maximum 32 bands, animation on background color, visibility, flipped and rotated in 4 directions, linked to picture file



Symbol Factory

in extensive software Panel Studio plus

Symbol Factory offers over 4000 high-resolution symbols with run-time animation

Transparent or color background can be selected for any symbols.

All symbols are made in high resolution and .NET components in less memory.

Run-time animations: maximum 50 bands, each band covering foreground color or blinking in different styles of shade, solid or visibility

Within Panel Studio, only 1st symbol to be selectable in each category Within Panel Studio Plus, all symbols to be selectable

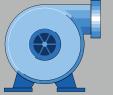
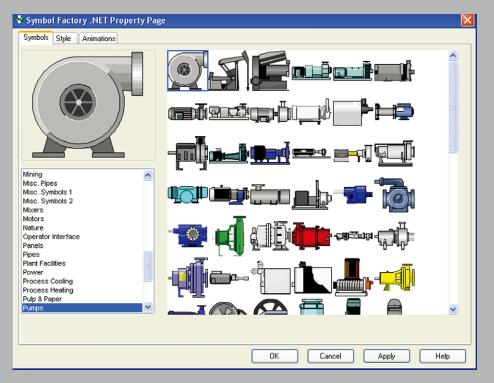
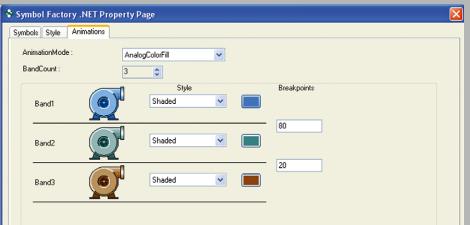


Fig : Pump





Data exchange as gateway

It is possible to exchange data from different PLCs via different ports of HMI simultaneously. Tools in HMI software are able to copy Tags from COM1 port to COM2, Ethernet, internal memory, or vice versa.





Diagnostic tools of OPC server, client



OPC Server

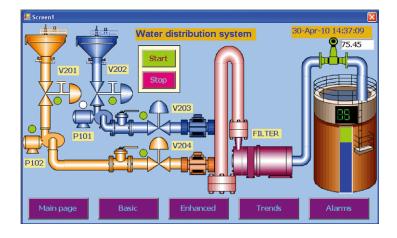
| 🚎 OPCMODBUS - OP | CMODBUSCFG | | | | Kastrik-ez | | | a 🗙 | | |
|--|----------------------------------|--------------------------------|--------------|----------------------------------|-----------------------------|--------------------|-------------|--------|-------------------|---|
| | Tools Help | ar 7 m | | | | | | | | |
| Address Space | | | Location Typ | | Starting Ad | | | /Write | | |
| *-# P1 *-111 D1 | PV No SP No | | | ster (word, r/ ster (word, r/ | | 129 UINT 1 UINT | | 1 | OPC clien | t |
| @ PV @ SP | | | | | | | | | | |
| Gonversions Device Parameters Simulation Signals Templates | Marne | | | | | _ | | DDBUS | - Test OPC Client | |
| | Address Device Type Custom | • • | Timeouts | | 000 Write: | Simula | File OPC | View | Help | |
| | Custom | - | Timeout | | 3 Suspend period: | 1000 | • 🗷 ¥ 👪 💭 * | s 1 ? | | |
| | | | Optimizati | | | | Tag | | Value | |
| Item ID | Value Tir | | | | dicate how much ur Limit | nused data | P1.D1.PV | | 22.2 | |
| P1.D1.PV | | nestamp /11/10 15:00:33.437 | | Subquality Non-specific | Not Limited | | | | | |
| P1.D1.SP | | /11/10 15:00:33.406 | | Non-specific | Not Limited | | P1.D1.SP | | 45.7 | |

Tag database

Tag scan mode Tag scan rate (IO poll groups) Simulation of tag Retentive internal memory active page or always 100 - 10,000 msec. possible available

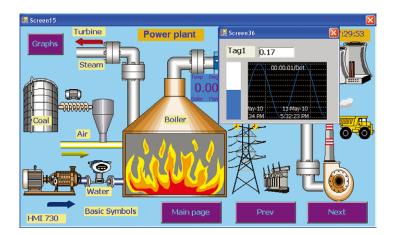
Templates

Screen can be defined as template and linked with another pages. For example, buttons, date/ time etc. can be defined once and reused in other screens easily.



Pop-up screens

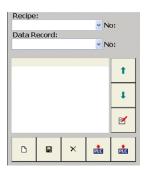
They are triggered by allarms with messages for the operator or display more information about process working area whenever the space of main screen is unavailable.



Scheduler types

| to trigger an action one time after elapse of time |
|--|
| to trigger an action repeatedly at certain time interval |
| to trigger an action at specific time daily |
| to trigger an action at specific time weekly |
| to trigger an action at specific time monthly |
| |

Recipe administration



Run-time

User friendly recipe viewer Add data records Edit data records Save and Delete data records Write data records from HMI to PLC Read data records from PLC to HMI Select recipe

Design-time

Create recipe elements Add data records

Alarms real Time, historical alarms

Alarm setpoint reference Hysteresis Alarm types Alarm control functions Job types Customized alarm messages

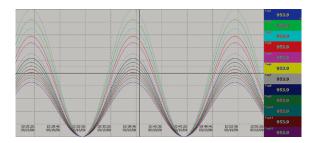
Data logging

Log trigger type Timer Max. data points Data log method constant or tag available Hi, Low, High High, Low Low, Dev+ & Devacknowledge, dump, clear, navigation between pages log alarm, log auto ack.alarm and log event possible

by timer, by change 100 msec., 1,2,5, 10,20,30 sec., 1, 5 & 10 min. as per predefined set point Instant, average, minimum and maximum

Data acquisition software Historical Viewer

Historical data and events are stored in internal memory or SD card first, then downloaded to USB stick. The PC software *Historical Viewer* is used to view historical data & events on USB stick. Features of Historical Viewer are listed below,



- * display historical trend
- % display historical alarms/events
- % display historical values on table
- % search data at a specific time, time period, event/alarm and tag wise
- % view trends both horizontally and vertically
- ※ zoom out & zoom In
- % display options as x sec., min./dot, x min.,
- hrs,,days, weeks, months/page
- % display white or black background
- % print trend view, event/alarm list & Tag values
- % export data and alarms/events to CSV files.

Security

| Numbers of users | 100 |
|--|--|
| Numbers of levels | 9 |
| Password expiry period | define the number of days or unlimited |
| Prevent operators from unauthorized access t | o controls and data entry. |
| Run-time user administration | available |



Script / Macro supported functions

C program

| System functions | ack. alarms, start/stop scheduler, etc. |
|----------------------|--|
| Math functions | Trigonometric, Log, Exp, Round, Power, etc. |
| Arithmetic functions | addition, subtraction, multiply, division, remainder |
| Logical functions | and, or, true, false, not, etc |
| Shift functions | left, right |
| Relational functions | =, !=,>, <,<=,>= |
| Selection functions | lf, else |
| Iteration functions | while, for |
| Jump functions | break, continue |

Online simulator

It is to test HMI project on PC by connecting it with PLC directly, The online simulating software can last only for 2 hours.

Offline simulator

It is to test HMI project offline on PC without connecting with PLC. It is possible to enter tag values via Tabular column, simulate the tag values, and check the behavior of objects.

Project compile

It is to check problems in application development like syntax errors, missing tags for objects, etc. After successful compilation, it creates a build for downloading to HMI.

Button function editor

Button function editor Advanced buttons with 3 kinds actions namely clicked, pressed and released with timing Hold time to stay the command by predefined time after clicking button, and repeat time for pressed button

Output

fr=

| Page control functions | Navigate to various pages- 1st, next, last, previous, by number, pop-up |
|--------------------------|---|
| Alarm control functions | dump, clear, Ack, move to 1st page, last page, PageUp and PageDown |
| Historical trend control | zoom in, out, all, move to 1st page, previous page, next page, last page |
| Data log control | start/stop data logging, dump, clear |
| Scheduler control | start/stop at a specific time |
| On/Off | turn bit on, turn bit off, toggle bit |
| Math | set value to Tag, add value on Tag, subtract value from Tag, copy TagB to TagA, |
| | add TagB on TagA, subtract TagB from TagA, swap TagA for TagB |
| Others | log in/out, shut down, audio functions, recipe functions |

Multiple sessions

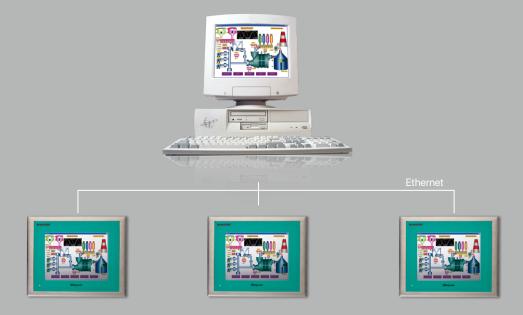
Two projects can be opened simultaneously on PC and copy screen from project 1 to project 2. It saves time and the cost for the programmer.

Download the projects

via Ethernet port or USB stick



HMI Remove Viewer







Drivers of PLC & inverters

OPC server within Panel Studio includes many drivers for PLCs, inverters and 3rd party devices for both Serial (RS232, RS422, RS485) and Ethernet ports. HMI is able to communicate on both ports simultaneously.

Serial drivers

| Manufacturers | Protocols | Models | | |
|------------------------|-------------------------------|---|--|--|
| Allen Bradley | DF1 protocol | SLC 500 series, MicroLogix, CompactLogix, ControlLogix, PLC5 series | | |
| Allen Bradley | DH485 | SLC 500 series, MicroLogix | | |
| Beckhoff serial | KS8000 protocol | CX 90x0, & CX10x0 series, BC 90xO | | |
| Danfoss(Inverter) | FC protocol | FC series for AutomationDrive / HVAC Drive | | |
| Delta | DVP serial | DVP-ES, DVP-EX, DVP-SS, DVP-SA, DVP-SX, DVP-SC, DVP-EH, DVP-EH2, DVP-SV, DVP-PM | | |
| Fatek | Fatek | FB series | | |
| Festo | CI Command | FEC series | | |
| Fuji | T-Link protocol | Micrex- F series | | |
| Fuji | Micrex Series protocol | SPH 200, SPH 300, SPH 300EX, SPH 2000 | | |
| GE Fanuc | Series Ninety protocol (SNP) | Micro PLC, GE 90-30/ 90-70, Versa Max | | |
| GE Fanuc | SNP-X protocol | Micro PLC, GE 90-30/ 90-70, Versa Max | | |
| Hitachi | Hitachi Hi protocol | Micro EH, EH, EHV & H series PLC's | | |
| IDEC IZUMI | Data Link | MicroSmart,OpenNet Controller,Micro3 | | |
| Keyence | ASCII | KV 700, KV1000, KV3000 & KV5000 | | |
| Keyence | Modbus RTU | KV Nano | | |
| Коуо | Direct Net | DL05, 06, 105, 205, 305 & 405 series | | |
| Коуо | K Sequence | DL05, 06, 105, 205 & 405 series | | |
| Lenze(Inverter) | LECOM | 8200/ 9300 Vector, 9300 Servo controller, 9300 Servo PLC, Driver PLC, 8200 Motec | | |
| LG(LS) | LG Cnet | GM series, MK series-K80S, K120S,K200S, K300S, K1000S, XGB & XGK series | | |
| Messung | Modbus RTU | Nextgen 2000, 5000 series | | |
| Mitsubishi | Melsec | FX, A, QnA & Q series,QOOUJ/Q02/FX CPU port | | |
| Modicon | Modbus RTU Master & Slave | Any device | | |
| Moeller | CANopen | XC100, XC200 series(Via CANopen option converter) | | |
| Omron | HostLink | CV, CVMX, CX, CH, CS, CJ, CQM1H series | | |
| Omron | Fins | CP, CS, CJ series | | |
| Matsushita (Panasonic) | Mewtocol | FP series-FPO, FP2, FP-X, FP-Sigma, FP2SH | | |
| Schneider | UniTeleway | TSX-Micro & TSX series | | |
| Siemens | PPI | S7-200 | | |
| Siemens | MPI | S7-300/400 | | |
| Тесо | Modbus RTU | TP03 | | |
| Teco(Inverter) | Modbus RTU | MA,CV 系列 | | |
| Toshiba | Computer link,T series serial | S2E/ST2 series | | |
| Toshiba | T1-micro series serial | T1-Micro | | |
| Vigor | Vigor Serial | M, VB, VH series | | |
| Vipa | MPI,MP2 | 100V,200V,300V,300S,500S | | |
| Yaskawa | Memobus- MP Serial | Memocon, MP-900 & MP-2000 series | | |
| Yaskawa(Inverter) | Memobus-Inverter serial | F1000, V1000, T1000, A1000 | | |
| Yokogawa | Factory Ace FA-M3 serial | FA-M3 model F3SPX series | | |

Ethernet drivers

| Manufacturers | Protocols | Models | | |
|------------------------|---------------------------|--|--|--|
| Allen Bradley Ethernet | Ethernet/IP, CIP | SLC 500 series, MicroLogix, CompactLogix,ControlLogix,PLC5 series | | |
| Beckhoff Ethernet | Beckhoff Ethernet | CX90x0, CX10xO series | | |
| 台達 (Delta)Ethernet | Delta Ethernet Protocol | DVP-SV series | | |
| 永宏 (Fatek)Ethenet | Fatek Ethernet | FB series | | |
| Festo-Ethernet | Ethernet CI Command | FEC series | | |
| GE Ethernet | SRTP | GE 90-30/ 90-70, Versa Max | | |
| Hitachi Ethernet | H series Ethernet | EH, EHV and H series PLC | | |
| Keyence Ethernet | Keyence Ethernet | KV 700, KV1000, KV3000 & KV5000 | | |
| Koyo Ethernet | Direct ECOM | DL05,06, 205,405 | | |
| LG Ethernet | LG Fast Ethernet | GM series, MK series 200S, 300S, 1000S, XGB & XGK series | | |
| Mitsubishi Ethernet | A, Q, QnA & FX Ethernet | A, Q, QnA & FX series PLC | | |
| Modicon | Modbus TCP Master & Slave | Any device | | |
| Omron Ethernet | FINS UDP | CH,CS & CJ Series | | |
| Siemens S7 Ethernet | Siemens TCP/IP | S7-200,300, 400 (Connection Via CP card at PLC),S7-1200 | | |
| Toshiba Ethernet | Toshiba Ethernet | T series, V series | | |
| Vipa | TCP/IP | 200V,300S,500S | | |
| Yaskawa MP Ethernet | Memobus Ethernet | MP-900 & MP- 2000 series | | |
| Yokogawa Ethernet | Yokogawa FA-M3 Ethernet | FA-M3 model F3SPX series | | |
| | | | | |

General drivers : ASCII protocol Serial & Ethernet, Modbus RTU Master & Slave, Modbus TCP Master & Slave

Networking Options

The networking cards with slave function are easily inserted in.

Available Networks: Profibus-DP, ProfiNet, DeviceNet, EtherNet/IP, CANopen, CC-Link

Ordering Code

| HMI 450 | | | | | | | |
|----------------------|----------------------------------|-----------------|---------------|---------------|------------------|---------------|--|
| HMI 730 | | | | | | | |
| HMI 750 | | | | | | | |
| HMI 1060 | | | | | | | |
| HMI 1550 | | | | | | | |
| | | | | | | | |
| Power supply | | | | | | | |
| 1: 11 to 36 VDC | | | | | | | |
| 2:90 to 250 VA | .C | | | | | | |
| Sound input + | output, 3DI+3I | 00 | | | | | |
| 0: None | | | | | | | |
| | | | | | | | |
| SD card Slot | | | | | | | |
| 0: None | | | | | | | |
| | | | | | | | |
| Ethernet | | | | | | | |
| 0: None | | | | | | | |
| | | | | | | | |
| Other Networl | ks (all slaves) | | | | | | |
| 0: None | | | | | | | |
| 1: Profibus-DP | | 5: CANopen | | | | | |
| 2: ProfiNet | | 8: CC-Link | | | | | |
| 3: DeviceNet | | | | | | | |
| 4: EtherNet/IP | | | | | | | |
| Software | | | | | | | |
| 1: free basic editir | ng & data acquisitio | n software Par | nel Studio | | | | |
| 2: extensive softw | <i>r</i> are Panel Studio Pl | us with Symbo | l Factory | | | | |
| 3: No software, W | inCE 6.0 [@] Core pla | tform only | | | | | |
| 4: No software, W | /inCE 6.0 [®] Pro platf | orm for SCADA | | | | | |
| Enclosure | | | | | | | |
| 0: Standard | HMI 450, 730, 10 | 060 : all plast | ic, 750: alum | inum front, p | olastic rear, HM | 41 1550: alum | |
| | front, metal rear | | | | | | |
| | | | | | | | |

1: Option HMI 750, 1550 only, stainless steel front, high pressure water protection IP66K, good for food, beverage, tobacco & pharmaceutical industries

Optional Accessories

| Part Number | Description |
|--------------------|--|
| CA-PC3-80 | program download cable from PC to HMI, RJ45, Ethernet cross over |
| Note: Please refer | part numbers of PI C cables to a separated list. |



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