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The Innovative Solution with High Performance,
Abundant Selection and Amazing Expandability.

Automation for a Changing World

Delta Programmable Logic Controller DVP series



reddot design award
winner 2010

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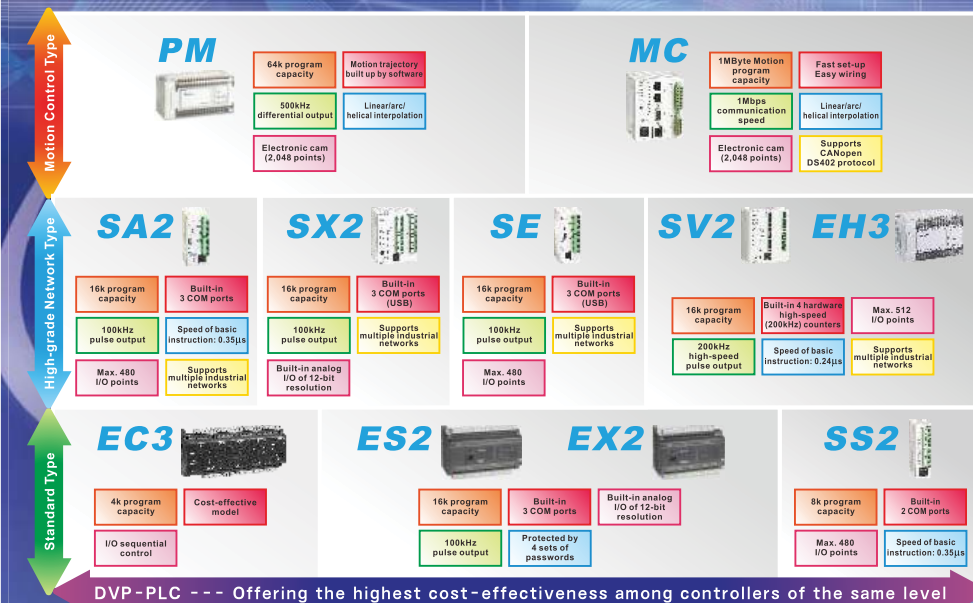


The Perfect Small PLC Revolution!

After launching the first DVP series PLCs for industrial automation applications, Delta has devoted itself to delivering more innovative products that satisfy customers' needs and meet the requirements for a wide variety of applications.

Delta PLCs offers a broad range of controllers and modules which all feature high performance, multiple functions and efficient program editing tools. With the aid of motion control, complete network communication and direct connection to Delta's other industrial automation products, it is easy to represent a high-value and well-integrated solution for machine control and industrial automation. Delta PLCs are among the most flexible product lines in the industry that deliver the most competitive benefits for customers.

To meet the requirements of various manufacturing industries, DVP series PLCs are developed with abundant features and excellent performance. In addition to the user-friendly programming software and faster execution speed, we also provide complete industry-focused solutions, motion control solutions, and industrial fieldbus solutions with Delta's new PLC series. We integrate our PLCs with Delta's industrial automation products to deliver a total integrated solution. As a most reliable partner, Delta is dedicated to creating value for our customers.



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2nd Generation Standard Type PLC DVP-ES2

Integrated communication functions. Built-in 1 RS-232 and 2 RS-485 Ports.

V2.0 and later version models support real time clock and file register (5k words)

- ▶ DVP-ES2 provides 16/20/24/32/40/60 I/O points for a variety of applications
- ▶ DVP20EX2 provides 12-bit 4 analog inputs / 2 analog outputs. With the aid of 14-bit analog input / output extension module and built-in PID auto tuning function, it offers a complete analog control solution
- ▶ Program capacity: 16k steps
Data register: 10k words
- ▶ Higher execution speed compared to the competition: LD: 0.35µs, MOV: 3.4µs
- ▶ High efficient processing ability: 1k steps of programs can be completed within 1ms
- ▶ Max. 100kHz pulse control. Specific motion control instructions such as mark/masking and instant frequency changing are available for multi-axes applications
- ▶ Up to 4 levels of password protection secures your source programs and intellectual property.

Built-in High-Speed Counters

1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/6	100kHz/10kHz	2	100kHz	1/3	15kHz/5kHz

New Member of DVP-ES2 Series

2nd Generation Standard Type PLC with built-in CANopen interface

DVP32ES2-C

Built-in 1Mbps CANopen interface with fast execution speed of Great noise-immunity, easy wiring.

Fast processing speed



High-speed industrial network CANopen

- ▶ COM3 supports standard CANopen DS301 protocol
- ▶ Provides versatile communication types: PDO, SDO, synchronous (SYNC), Emergency, NMT and many more
- ▶ 1Mbps high speed transmission for large data
Maximum PDO transmission up to 390 bytes
Maximum PDO receiving up to 390 bytes
- ▶ Ability to connect with 16 slaves via CANopen
- ▶ CANopen Builder software is used to construct slave nodes



New Member of DVP-EX2 Series

2nd Generation Temperature/Analog I/O PLC

DVP30EX2

Integrated controller able to control temperature and analog input

- ▶ Built-in 16-bit 3 analog inputs / 3 analog outputs.
- ▶ With built-in PID auto tuning function, it offers a complete analog control solution.
- ▶ Provides 3 analog inputs for PT/Ni temperature input, precision of 0.1 degree can be readily achieved.
- ▶ Suitable for the specific industries that require temperature and analog input control such as boiler industries and HVAC

Built-in Analog I/O in EX2 Model

Analog Input		Analog Output	
Points	Resolution	Points	Resolution
3	16-bit	1	12-bit
Spec. -20~20mA or -10~10V		Spec. 0~20mA or -10~10V	

Built-in temperature control function in DVP30EX2

Sensor	PT100/PT1000	NI100/NI1000
Temperature Range	-200°C~800°C	-100°C~180°C
Value Range	-2000~8000	-1000~1800

Basic Type DVP-EC3

Applicable for sequence control and simple RS-485/MODBUS communication

- ▶ Built-in I/O: 10/14/16/20/24/30/32/40/60
- ▶ Program capacity: 4k steps
- ▶ COM port: Built-in RS-232 & RS-485 ports (10/14/30-point models do not support RS-485), compatible with MODBUS ASCII/RTU protocol
- ▶ Supports 2 points (Y0, Y1) of independent high-speed (max. 10kHz) pulse output

Built-in High-Speed Counters

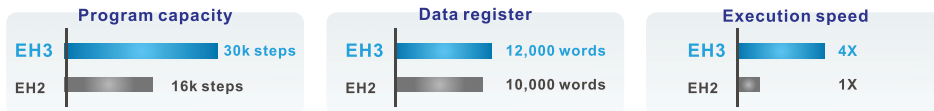
1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/2	20kHz/10kHz	1	20kHz	1	4kHz



High Performance PLC

DVP-EH3

The new generation DVP-EH3 PLC is the high-end model of the Delta DVP-E series. It provides larger program capacity and data registers for more demanding and complex applications



Excellent Motion Control

- ▶ High-speed pulse output: 4 sets of 200kHz pulse output (40 I/O points DVP-EH3-T models only)
- ▶ Supports max. 4 hardware 200kHz high-speed counters
- ▶ Increases many motion control instructions to meet the applications that require high-speed and high-precision positioning control such as labeling machines, packaging machines and printing machines
- ▶ Offers linear / arc interpolation motion control
- ▶ Provides up to 16 external interrupt pointers

Complete Program Protection

- ▶ Auto backup function to prevent losing programs and data even when the battery runs out
- ▶ Second copy function provides a backup for extra insurance in the event that one set of programs and data are damaged
- ▶ Up to 4-level password protection protects your source programs and intellectual property

Built-in 4 Hardware High-Speed Counters

Standard		Hardware high-speed counter					
1-phase 1 input		1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
6	10kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz

Outstanding Operation Performance

CPU + ASIC dual processors support floating point operations. The max. execution speed of basic instructions is able to reach 0.24µs.

Flexible Function Extension Modules & Cards

The multiple selections of extension modules and function cards provide analog I/O, temperature measurement, additional single-axis motion control, high-speed counting, 3rd serial communication port and Ethernet communication card are available.

PLC-Link

PLC-Link allows the user to link up a max. 32 units to the network without having to install extra communication extension modules.

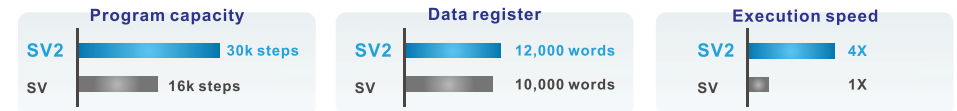
Brand-New High-Speed Extension Modules

The brand-new extension modules greatly shorten the data transmission time among the MPU and its extension modules as well as enhance the efficiency of the MPU program.

High Performance Slim PLC

DVP-SV2

The new generation DVP-SV2 PLC is the high-end model of the Delta DVP-S series. It provides larger program capacities and data registers for more demanding and complex applications



Excellent Motion Control

- ▶ High-speed pulse output: 4 sets of 200kHz pulse output
- ▶ Supports max. 4 hardware 200kHz high-speed counters
- ▶ Increases many motion control instructions to meet the applications that require high-speed and high-precision positioning control such as labeling machines, packaging machines and printing machines
- ▶ Offers linear / arc interpolation motion control
- ▶ Provides up to 16 external interrupt pointers

Complete Program Protection

- ▶ Auto backup function to prevent losing programs and data even when the battery runs out
- ▶ Second copy function provides a backup for extra insurance in the event that one set of programs and data are damaged
- ▶ Up to 4-level password protection protects your source programs and intellectual property

Supports DVP-S series left-side and right-side modules. Add new ETHRW instruction for Ethernet communication

Built-in 4 Hardware High-Speed Counters

Standard		Hardware high-speed counter					
1-phase 1 input		1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
6	10kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz



2nd Generation Standard Slim PLC DVP-SS2

Economic and Compact PLC. Max. 480 I/O points

- ▶ Program capacity: 8k steps
Data register: 5k words
- ▶ Higher execution speed compared to the competition: LD: 0.35µs, MOV: 3.4µs
- ▶ Built-in RS-232 and RS-485 ports (Master/Slave). Supports standard MODBUS ASCII/RTU protocol and PLC Link function.

Motion Control Functions

- ▶ 4 points of 10kHz pulse output
- ▶ 8 sets of high-speed counters: 20kHz/4 points, 10kHz/4 points

Built-in High-Speed Counters

1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
4/4	20kHz/10kHz	2	20kHz	2/2	10kHz/5kHz

2nd Generation Advanced Slim PLC DVP-SA2

Compact PLC Specializes in Motion Control

- ▶ 4 sets of high-speed pulse output: 100kHz/2 sets, 10kHz/2 sets
- ▶ 8 sets of high-speed pulse input: 100kHz/2 sets, 10kHz/6 sets, 1 group of A/B phase 50kHz
- ▶ Supports 2-axis linear and arc interpolation
- ▶ Program capacity: 16k steps
Data register: 10k words
- ▶ Higher execution speed compared to the competition: LD: 0.35µs, MOV: 3.4µs
- ▶ Built-in 1 RS-232 and 2 RS-485 ports (Master/Slave). Supports standard MODBUS ASCII/RTU protocol and PLC Link function.
- ▶ No battery required. Maintenance-free. (Real time clock operates for 15 days after power off)
- ▶ Supports DVP-S series left-side and right-side modules

Built-in High-Speed Counters

1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/6	100kHz/10kHz	2	100kHz	1/3	50kHz/5kHz

2nd Generation Analog I/O Slim PLC DVP-SX2

Compact PLC with Incredible Analog Function 4 Analog Inputs, 2 Analog Outputs, High Efficient PID Auto Tuning Performance

- ▶ Program capacity: 16k steps
Data register: 10k words
- ▶ Higher execution speed compared to the competition: LD: 0.35µs, MOV: 3.4µs
- ▶ Built-in mini USB, RS-232 and RS-485 ports (Master/Slave). Supports standard MODBUS ASCII/RTU protocol and PLC Link function.
- ▶ No battery required. Maintenance-free. (Real time clock operates for 15 days after power off)
- ▶ Supports DVP-S series left-side and right-side modules.

Motion Control Functions

- ▶ 4 sets of high-speed pulse output: 100kHz/2 sets, 10kHz/2 sets
- ▶ 8 sets of high-speed pulse input: 100kHz/2 sets, 10kHz/6 sets
- ▶ Supports 2-axis linear and arc interpolation

Built-in Analog I/O

Analog Input		Analog Output	
Points	4	Points	2
Resolution	12-bit	Resolution	12-bit
Spec.	-20~20mA or -10~10V 4~20mA	Spec.	0~20mA or -10~10V 4~20mA

Network Type Advanced Slim PLC DVP-SE

Most complete communication type slim PLC in the industry.

Provides 8 digital inputs and 4 digital outputs. Built-in mini USB, Ethernet, and 2 RS-485 ports

- ▶ Program capacity: 16k steps
Data register: 12k words
- ▶ Higher execution speed compared to the competition: LD: 0.64µs, MOV: 2µs
- ▶ Built-in Ethernet supports MODBUS TCP and Ethernet/IP
- ▶ IP Filter function is a firewall that offers the first line of defense and provides protection from malware and network threats
- ▶ Remote I/O function is suitable for distributed sequence control applications such as building automation system
- ▶ Supports DVP-S series left-side and right-side modules
- ▶ No battery required. Maintenance-free. (Real time clock operates for 15 days after power off)

Pulse-train Motion Controller

DVP-PM



General Purpose Motion Controller

DVP10PM00M

2 / 3 / 4 / 5 / 6-axis linear interpolation motion control

Highly accurate PWM 200kHz output, resolution 0.3%.

8 groups of high-speed captures (mark correction, frequency measurement), Comparative output, Mark/Mask function (for bag making)

- ▶ Built-in 24 I/O points. Max. 256 I/O points
- ▶ Program capacity: 64k steps. Data register: 10k words
- ▶ Higher programming speed compared to the competition: LD: 0.13μs, MOV: 2.1μs
- ▶ Built-in RS-232 and RS-485 ports. Supports standard MODBUS ASCII/RTU protocol

Motion Control Functions

- ▶ High-speed pulse output: built-in 6 groups of A/B phase pulse outputs
- ▶ 6 groups of high-speed counters and hardware digital filter for counting
- ▶ Single-axis motion control function (supports 1st speed, 2nd speed, MPG function)
- ▶ Electronic gear function

Professional Motion Controllers

DVP20PM00D/M

Compatible with G-Code / M-Code. 3-axis linear / arc / helical interpolation.

Supports electronic cam (2048 points) function for flying shear and rotary cut applications

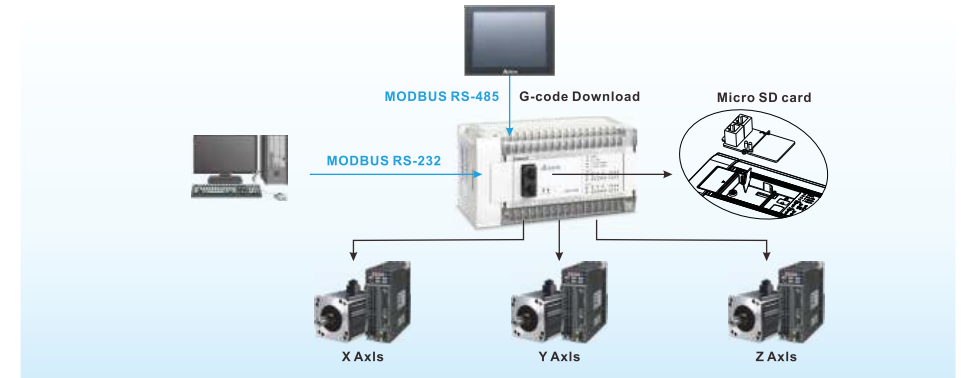
Not only a motion controller but also an extension module.

- ▶ Built-in 16 I/O points. Max. 512 I/O points
- ▶ Program capacity: 64k steps. Data register: 10k words
- ▶ Built-in RS-232 and RS-485 ports. Supports standard MODBUS ASCII/RTU protocol

Motion Control Functions

- ▶ Built-in A/B phase differential signal outputs: 2 groups (DVP20PM00D) / 3 groups (DVP20PM00M). Max. differential output frequency is 500kHz.
- ▶ Supports MPG inputs
- ▶ Single-axis motion control function (supports 1 speed, 2 speed, MPG function)
- ▶ Electronic gear function

DVP-PM Series High-speed Pulse-train Motion Controller



Network Type Motion Controller

DVP-MC

CANopen Motion Controller

DVP10MC11T



Up to 16 axes can be controlled through high-speed CANopen communication. Provides E-Cam (2048 points), rotary cut and flying shear applications. Compatible with DVP-S series left and right side modules for flexible applications

- ▶ Built-in 12 I/O points (8 points of high-speed pulse inputs for interrupt function and 4 points of high-speed outputs)
- ▶ Max. 480 I/O points
- ▶ Program capacity: Ladder 16k steps / Motion 1Mbyte
- ▶ Built-in Ethernet, RS-232 and RS-485 communication port and standard MODBUS ASCII/RTU communication protocol
- ▶ Flexible industrial network applications (provides DeviceNet Master/Slave, CANopen Master/Slave, PROFIBUS-DP Slave and many more modules)
- ▶ Provides standard CANopen communication cables, terminal resistors, distribution boxes and related accessories. Wiring is simple and easy.
- ▶ Synchronously controls 4 axis in 2ms and 8 axis in 4ms
- ▶ Compatible with G-Code
- ▶ Supports PLCopen standard function blocks for motion control, enhancing program editing efficiency



Function Cards for DVP-PM

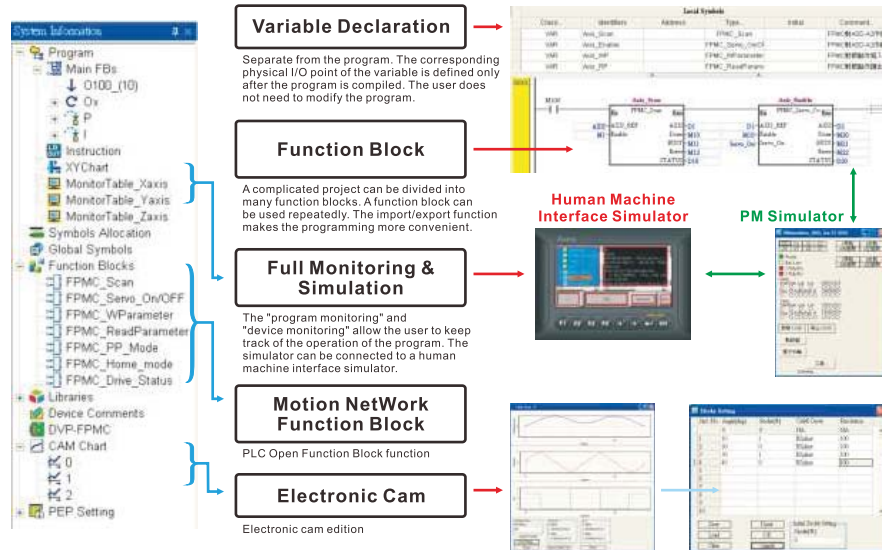
Model name	Spec.	Features
PM-PCC01	Data backup memory card	Auto read/write program
DVP-FPMC	Ethernet/CANopen communication card *Supports function cards for DVP-EH2, DVP-F2AD, DVP-F2DA, DVP-F232S, DVP-F485S	1. Complies with CANopen DS301 V4.01 protocol. 2. Supports CANopen DS402 V2.1.4 synchronous axes, 126 asynchronous axes. 3. Provides high-speed upload/download of Ethernet program.

CANopen Accessories

Model name	Spec.	Features
TAP-CN01/02/03	Distribution Boxes	Built-in terminal resistor 12 ohm
TAP-CB01/02/03/05/10/20	CANopen communication cables	Standard Canopen Cables
TAP-TR01	Terminal Resistor	Terminal Resistor 120 Ohm

PMSoft

The programming software for G-code editing, motion trajectory simulation, positioning route instruction and electronic cam establishment



Professional Motion Control Applications

Designed as the most outstanding and economical motion controller, DVP-PM provides flying shear, rotary shear, electronic cam and many high-level functions to achieve highly precise motion control.

Robot arm

Electronic Cam (E-Cam) function enables the robot arm to perform multi-axis control. After the required positions are memorized in the PLC, users can enable the electronic cam function to create the E-Cam profile and conduct trajectory tracking and multi-axes motion control required in robot arm applications



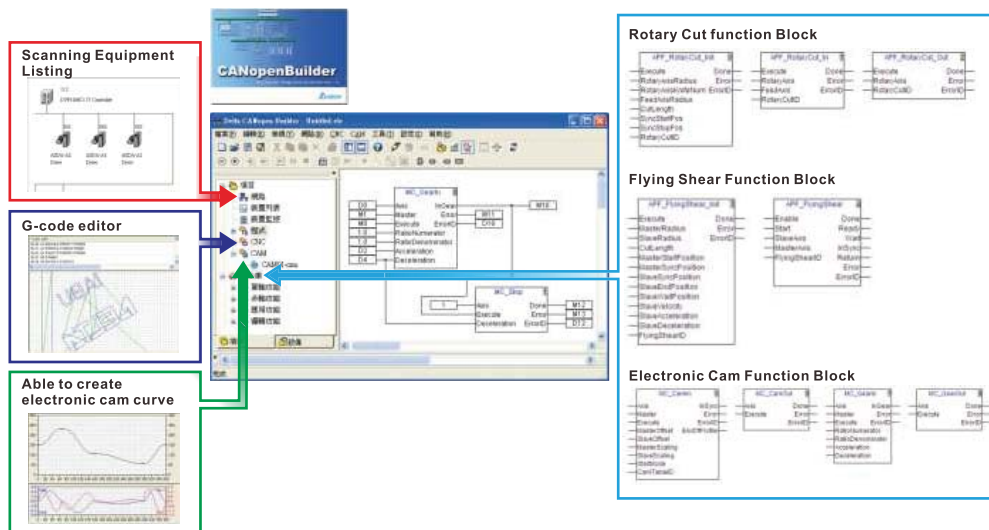
High-Speed Cutting Machine

Average PLC cutting motion is limited by operation speed, poor synchronization, large amount of calculations and long CPU processing time, resulting in a disproportionate cutting result and affecting the quality of end products. The basic demands, however, can be fulfilled under low speed while rough surface and low quality appear under high speed. The electronic cam function offered by DVP-PM and DVP-MC is able to generate dynamic cam curves for rotary shear to ensure precise cutting results.



CANopen Builder

Available for designing CANopen networks and DVP-MC motion control programs



Digital Board Cutting Machine

Typically, a PLC finishes cutting with an interruption, followed by a large error. Now the rotary shear function built into the DVP-PM is able to complete all kinds of demands, such as synchronous conveyance and cutting speed, to ensure precise cutting results.

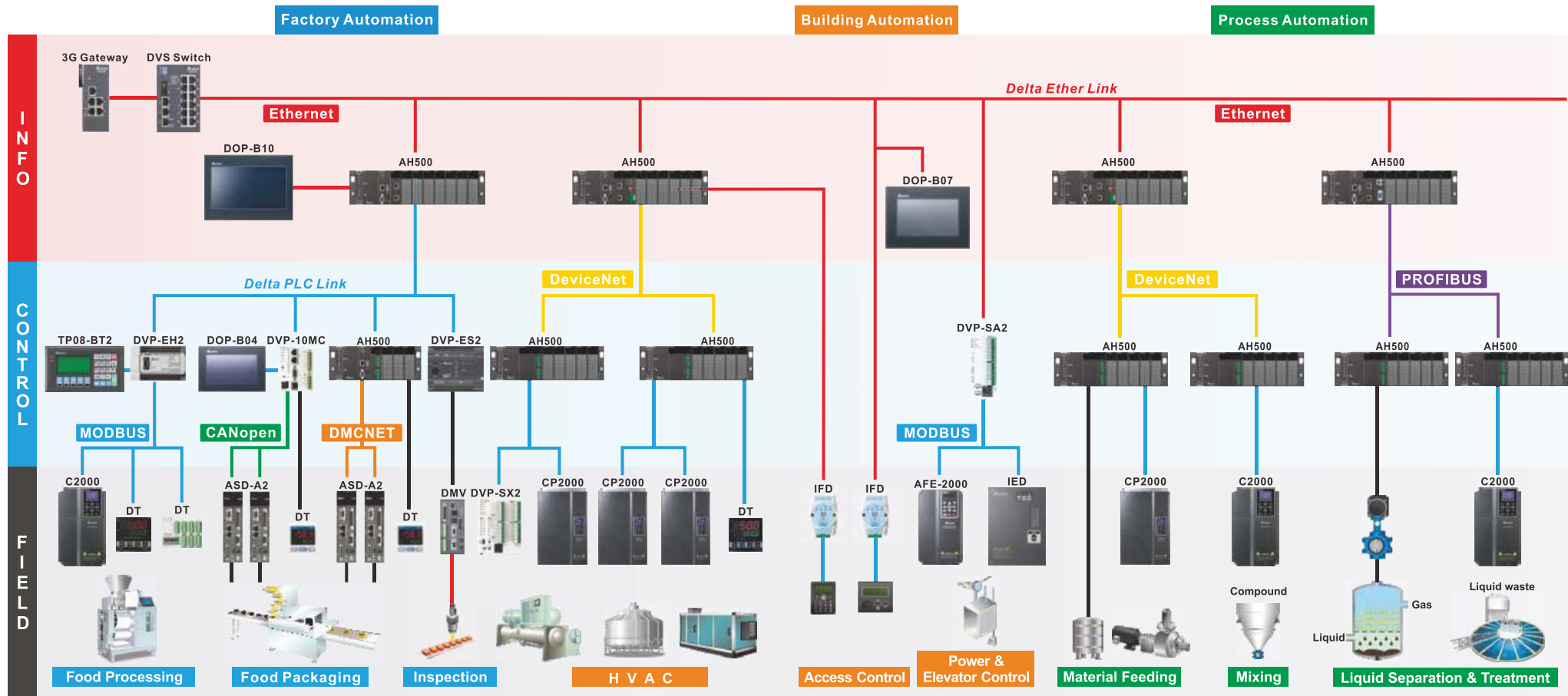


CNC Lathe

DVP-PM controls multi-axis motion. 2-axis complete the motion by linear or arc interpolation, and the other 2 work independently, controlling the independent or synchronous ascending/descending of the vertical axis on 2 sides.



Industrial Automation Solutions



Ethernet

Delta Ethernet products transcend the limits of transmission distance, offering 10/100Mbps high-speed transmission and efficient remote monitoring.

CANopen

Delta CANopen products support CANopen DS301 and DSP402 protocols, and are able to achieve multi-axis, high-speed and complex motion control with max. speed 1Mbps.

DMCNET

Delta DMCNET offers 10Mbps communication speed, constructing a real-time control system which supports multi-axis synchronous motion. The system can be connected to servo motors, remote digital or analog I/O modules, step motors, DD motors, linear motors, MPG modules, and more.

MODBUS

Delta MODBUS serial products integrate easily with devices of other brands, and for communication among RS-232, RS-422, RS-485 and custom-defined formats, offering greater flexibility for on-site applications.

DeviceNet

Delta DeviceNet products support interconnections among products of different brands and wire-saving network topology. The 500kbps stable and noise resistant fieldbus data transmission is suitable for harsh industrial sites.

PROFIBUS

Delta PROFIBUS products support 12Mbps communication speed and are suitable for distributed automated industrial control networks.





Standard 4 Line Text Panels

TP04G-AL-C

TP04G-AL2

- ▶ 4.1" STN-LCD
- ▶ User-defined function keys available
- ▶ Supports RS-232 / RS-422 / RS-485 COM ports (TP04G-AL2)
- ▶ Password protection function available
- ▶ User-defined boot screen available
- ▶ Built-in Perpetual Calendar (RTC)

Dimensions	4.1" (101.8 x 35.24mm)
Resolution	192 x 64
Display color	Monochrome
Flash Memory	256k bytes
SRAM	16k/10k bytes
Function keys	10 function keys
Password	Available
Recipe function	Not available
Real-time clock	Available
Serial COM port	RS-232 & RS-422/485
Editing software	TPEditor

Basic 2/4 Line Text Panels

TP02G-AS1

TP04G-AS2

- ▶ STN LCD Size: 2.8" (TP02G), 3.0" (TP04G)
- ▶ Resolution: 160 x 32 dots (TP02G), 128 x 64 dots (TP04G)
- ▶ Built-in 256kB flash memory
- ▶ TP02 provides 16 user-defined function keys
- ▶ TP04 provides 12 user-defined function keys
- ▶ TP02 supports RS-232 and RS-485 COM ports
- ▶ TP04 supports RS-232 and RS-485 / RS-422 COM ports
- ▶ Password protection function available

Dimensions	72 x 22 mm / 3" (67mm x 32 mm)
Resolution	160 x 32 / 128 x 64
Display color	Monochrome
Flash Memory	256k bytes
SRAM	32k bytes
Function keys	16 / 12 function keys
Password	Available
Recipe function	Not available
Real-time clock	Available
Serial COM port	RS-232 & RS-422/485
Editing software	TPEditor

Standard Numeric Entry 4 Line Text Panel

TP04G-BL-C

- ▶ 4.1" STN-LCD
- ▶ 0-9 numeric keys and user-defined function available
- ▶ Built-in RS-232 standard MODBUS ASCII/RTU modes
- ▶ Password protection function available
- ▶ User-defined boot screen available
- ▶ Built-in Perpetual Calendar (RTC)

Dimensions	4.1" (101.8 x 35.24mm)
Resolution	192 x 64
Display color	Monochrome
Flash Memory	256k bytes
SRAM	10k bytes
Function keys	17 function keys
Password	Available
Recipe function	Not available
Real-time clock	Available
Serial COM port	RS-232
Editing software	TPEditor

Multi-function 8 Line Text Panel

TP08G-BT2

- ▶ 3.8" STN-LCD
- ▶ Resolution: 240 x 128 dots
- ▶ Built-in 1024kB flash memory
- ▶ 24 user-defined function keys
- ▶ Built-in RS-232 and RS-485 / RS-422 COM ports
- ▶ Supports recipes and macro functions

Dimensions	3.6" (83mm x 41 mm)
Resolution	160 x 80/240 x 128
Display color	Monochrome
Flash Memory	1M bytes
SRAM	64k bytes
Function keys	24 function keys
Password	Available
Recipe function	Available
Real-time clock	Available
Serial COM port	RS-232 & RS-422/485
Editing software	TPEditor

TP Hardware Specifications

Model name		TP02G-AS1	TP04G-AS2	TP08G-BT2	TP04G-AL-C	TP04G-AL2	TP04G-BL-C
Display specifications	Screen type	STN LCD					
	Display color	Monochrome					
	Resolution	160 x 32	128 x 64	240 x 128	192 x 64		
	Backlight	Life span of backlight is about 50,000 hours at 25 °C					
	Display range	72 x 22mm	3*(67 x 32mm)	3.8*(83 x 41mm)	4.1*(101.8 x 35.24mm)		
Flash memory		256k byte		1M byte	256k byte		
Program download port		COM1(RS-232)					
Serial COM port	COM1	RS-232	RS-232/422		RS-232	RS-232/422	RS-232
	COM2	RS-485		-	RS-485	-	
Extension interface		The slot for program copy card					
Real-time clock		Built-in					
Auxiliary keys	System keys	6	7	12	5	7	
	Function keys	10	5	12	5	10	
Operating voltage		DC +24V (-10% ~+20%)					
Backup battery		3V lithium battery CR2032 x 1 / battery life: 5 years					
Buzzer		85dB					
Cooling method		Natural air circulation					
Operating temperature		0°C~50°C					
Storage temperature		-20°C~+60°C					
Operating humidity		10% ~ 90% RH (0~40°C)					
Vibration		IEC61131-2, IEC 68-2-6 (TEST Fc) 5Hz≤f<8.4Hz Continuous: 3.5mm 8.4Hz≤f≤150Hz Continuous: 1.0g					
Shock		IEC61131-2, IEC 68-2-27 (TEST Ea) 15g peak, 11ms duration, half-sine, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)					
Radiated emission		CISPR11, Class A Frequency: 30~230MHz, Limits: 40dB uV/m; Frequency: 230MHz~1GHz, Limits: 47dB uV/m					
Radiated electromagnetic field		EN61000-4-3, Frequency: 80~2000MHz, Limits: 10V/m					
Electrostatic discharge		EN61000-4-2, Air Discharge: 8KV, Contact Discharge: 4KV					
Fast transient burst		EN61000-4-4, Power Line: 1KV, Communication I/O: 500V					
Dimensions (Width (W) x Height (H) x Depth (D))		147 x 97 x 35.5		210 x 122 x 45		163.6 x 108.6 x 37	
Panel cutout		136 x 85		196 x 108		151 x 96	
Weight		240g		430g		270g	
Safety approvals (Waterproof class of front panel)		IP65/NEMA4 & CE, UL Type 4 indoor			IP65/NEMA4 & CE		

Product Outline & Dimensions



Extension Modules

Small PLC with the Strongest Operation Efficiency!

DVP-EH3

- ▶ Max. 512 I/O points
- ▶ 200kHz high-speed pulse output
- ▶ Brand-new high-speed extension modules
- ▶ Supports linear/arc interpolation
- ▶ -L type supports left-side extension



Function Cards

- Convert RS-485 into RS-232/422 for COM2



- Add additional 3rd COM port



- For Ethernet Communication



- For CANopen Communication



- Analog I/O



Accessories

- Data Backup Card
DVP-256FM
(for special purpose)



DVPPCC01
(for general purpose)



- Data Transmission Cable
DVPACAB2A30



- Digital Display Panel
DVPDU01



- Handheld Programming Panel
DVP-HPP02



Model name	Spec.
DVP16EH00R3	—AC— 16 I 16 R → 2 groups of 200kHz pulse input
DVP16EH00T3	—AC— 16 I 16 T → 2-axis of 200kHz pulse output, 2 groups of 200kHz pulse input
DVP20EH00R3	—AC— 16 I 16 R → 2 groups of 200kHz pulse input
DVP20EH00T3	—AC— 16 I 16 T → 2-axis of 200kHz (each axis) pulse output, 2 groups of 200kHz pulse input
DVP32EH00R3	—AC— 16 I 16 R → 4 groups of 200kHz pulse input
DVP32EH00T3	—AC— 16 I 16 T → 2-axis of 200kHz (each axis) pulse output, 4 groups of 200kHz pulse input
DVP32EH00M3	—AC— 16 I 16 M → 2-axis of 200kHz (each axis) pulse output, 4 groups of 200kHz pulse input
DVP32EH00R3-L*	—AC— 16 I 16 R → 4 groups of 200kHz pulse input
DVP32EH00T3-L*	—AC— 16 I 16 T → 2-axis of 200kHz (each axis) pulse output, 4 groups of 200kHz pulse input
DVP40EH00R3	—AC— 24 I 16 R → 4 groups of 200kHz pulse input
DVP40EH00T3	—AC— 24 I 16 T → 4-axis of 200kHz (each axis) pulse input/output
DVP48EH00R3	—AC— 24 I 24 R → 4 groups of 200kHz pulse input
DVP48EH00T3	—AC— 24 I 24 T → 4-axis of 200kHz (each axis) pulse input/output
DVP64EH00R3	—AC— 32 I 32 R → 4 groups of 200kHz pulse input
DVP64EH00T3	—AC— 32 I 32 T → 4-axis of 200kHz (each axis) pulse input/output
DVP80EH00R3	—AC— 40 I 40 R → 4 groups of 200kHz pulse input
DVP80EH00T3	—AC— 40 I 40 T → 4-axis of 200kHz (each axis) pulse input/output

—AC— : AC power supply I : Input points O : Output points R → : Relay output T → : Transistor output M → : Differential output
*Supports left-side high-speed extension.

Digital I/O Modules

- Input Point Extension
DVP08HM11N
DVP16HM11N



- Output Point Extension
DVP08HN11R/T
DVP32HN00R/T



- Input/Output Point Extension
DVP08HP11R/T
DVP16HP11R/T
DVP32HP00R/T
DVP48HP00R/T



Analog I/O Modules

Analog Function Extension

- Analog Input
DVP04AD-H2
V : 14-bit
I : 13-bit



- Analog Output
DVP04DA-H2
V : 12-bit
I : 12-bit



- Analog Input/Output
DVP06XA-H2
Input 4CH / Output 2CH
V : 12-bit V : 12-bit
I : 11-bit I : 12-bit



Temperature Measurement

- Sensor: Pt100
DVP04PT-H2



- Sensor: J, K, R, S,
T type
thermocouple



- DVP32EH00R2-L & DVP32EH00T2-L are also compatible with left-side high-speed extension modules for DVP-SV series.

Motion Control

- Single-Axis Positioning
DVP01PU-H2



- High-Speed Counter
DVP01HC-H2



*Contact your sales representative for the official launch date of the left-side high-speed extension modules.

Extension Modules

The Most Cost-Effective Solution to Sequential Control!

DVP-ES2/EX2

- ▶ 100kHz pulse output
- ▶ Analog input/output



reddot design award
winner 2010



Model name	Spec.
DVP16ES200R	Ⓢ Ⓜ 8 Ⓡ
DVP16ES200T	Ⓢ Ⓜ 8 Ⓣ
DVP24ES200R	Ⓢ Ⓜ 8 Ⓡ
DVP24ES200T	Ⓢ Ⓜ 8 Ⓣ
DVP32ES200R	Ⓢ Ⓜ 16 Ⓡ
DVP32ES200T	Ⓢ Ⓜ 16 Ⓣ
DVP32ES211T	Ⓢ Ⓜ 16 Ⓣ
DVP32ES200RC	Ⓢ Ⓜ 16 Ⓣ
DVP32ES200TC	Ⓢ Ⓜ 16 Ⓣ
DVP40ES200R	Ⓢ Ⓜ 24 Ⓡ
DVP40ES200T	Ⓢ Ⓜ 24 Ⓣ
DVP60ES200R	Ⓢ Ⓜ 24 Ⓡ
DVP60ES200T	Ⓢ Ⓜ 24 Ⓣ

Ⓢ : AC power supply Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output
 Ⓡ : Relay output

Model name	Spec.
DVP20EX200R	Ⓢ Ⓜ 6 4AI/2AO Ⓡ
DVP20EX200T	Ⓢ Ⓜ 6 4AI/2AO Ⓣ
DVP30EX200R	Ⓢ Ⓜ 10 3AI/1AO Ⓡ
DVP30EX200T	Ⓢ Ⓜ 10 3AI/1AO Ⓣ

Ⓢ : AC power supply Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output
 Ⓡ : Relay output

Digital I/O Modules

- Input Point Extension
DVP08XM211N
DVP16XM211N
- Output Point Extension
DVP08XN211R/T
DVP16XN211R/T
DVP24XN200R/T
- Input/Output Point Extension
DVP08XP211R/T
DVP16XP211R/T
DVP24XP200R/T
DVP32XP200R/T



Analog I/O Modules

- Input Point Extension
DVP04AD-E2
- Output Point Extension
DVP04DA-E2
DVP02DA-E2
- Input/Output Point Extension
DVP06XA-E2



Temperature Measurement Modules

- DVP04PT-E2
- DVP04TC-E2



Compact Appearance; Flexible Extension!

DVP-SS2

2nd-Generation Slim Standard MPU

Model name	Spec.
DVP14SS211R	Ⓢ Ⓜ 6 Ⓡ
DVP14SS211T	Ⓢ Ⓜ 6 Ⓣ

Ⓡ : Relay output Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output



DVP-SX2

2nd-Generation Slim Analog I/O MPU

Model name	Spec.
DVP20SX211R	Ⓢ Ⓜ 6 Ⓡ
DVP20SX211T	Ⓢ Ⓜ 6 Ⓣ
DVP20SX211S	Ⓢ Ⓜ 6 Ⓢ

Ⓡ : Relay output Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output
 Ⓢ : Transistor output (PNP)

DVP-SA2

2nd-Generation Slim Advanced MPU

Model name	Spec.
DVP12SA211R	Ⓢ Ⓜ 4 Ⓡ
DVP12SA211T	Ⓢ Ⓜ 4 Ⓣ

Ⓡ : Relay output Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output



DVP-SV2

Functional Slim Type MPU

Model name	Spec.
DVP28SV211R	Ⓢ Ⓜ 12 Ⓡ
DVP28SV211T	Ⓢ Ⓜ 12 Ⓣ

Ⓡ : Relay output Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output

DVP-SE

Network Type Advanced Slim PLC

Model name	Spec.
DVP12SE11R	Ⓢ Ⓜ 4 Ⓡ
DVP12SE11T	Ⓢ Ⓜ 4 Ⓣ

Ⓡ : Relay output Ⓜ : Input points Ⓡ : Output points
 Ⓢ : DC power supply Ⓣ : Transistor output



Extension Modules

Left-Side High-Speed Extension Modules

Communication Modules

- **DeviceNet Master**
DVPDNET-SL
- **Ethernet**
DVPEN01-SL
- **CANopen Master**
DVP COPM-SL
- **RS-485/RS-422 Serial Communication Module**
DVPSCM12-SL

Analog Function Extension

- **Analog Input**
DVP04AD-SL
- **Analog Output**
DVP04DA-SL

Load Cell/Tension Control

- **Load Cell Module**
DVP02LC-SL

General Extension Modules

I/O Point Extension

- **Input Point Extension**
DVP08SM11N
DVP16SM11N
- **Output Point Extension**
DVP06SN11R
DVP08SN11R/T
DVP16SN11T
- **Input/Output Point Extension**
DVP08SP11R/T
DVP16SP11R/T
DVP16SP11TS(PNP)
- **Pin Header Input**
DVP32SM11N
- **Pin Header Output**
DVP32SN11TN
- **Digital Switch**
DVP08ST11N

Analog Function Extension

- **Analog Input**
DVP04AD-S
DVP06AD-S
- **Analog Output**
DVP04DA-S
DVP02DA-S
- **Analog Input/Output**
DVP06XA-S

Temperature Measurement

- **Sensor: Pt100**
DVP04PT-S
- **Sensor: J, K, R, S, T type thermocouple**
DVP04TC-S

Motion Control

- **Single-Axis Positioning**
DVP01PU-S

Communication Modules

- **PROFIBUS Slave**
DVPPF01-S
- **DeviceNet Slave**
DVPDT01-S

Power Supply Modules

- **DVPPS01**
- **DVPPS02**

Electrical Specifications

	AC	DC
Power supply voltage	100 ~ 240VAC (-15% ~ 10%), 50/60Hz ± 5%	24VDC (-15% ~ 20%)
Fuse capacity	2A/250VAC	ES:2A/250VAC;SV:2.5A/30VDC
Spike voltage durability	1,500VAC (Primary-secondary); 1,500VAC (Primary-PE); 500VAC (Secondary-PE)	
Insulation impedance	>5MΩ (all I/O point-to-ground: 500VDC)	
Noise immunity	ESD: 8kV Air Discharge EFT: Power Line · 2kV Digital I/O : 1kV Analog & Communication I/O : 1kV RS: 26MHz ~ 1GHz · 10V/m	
Earth	The diameter of grounding wire shall not be shorter than that of the power supply cable. (When many PLCs are in use at the same time, please make sure every PLC is properly grounded.)	
Storage / operation	Storage: -25°C ~ 70°C (temperature); 5% ~ 95% (humidity) Operation: 0°C ~ 55°C (temperature); 50% ~ 95% (humidity); pollution degree 2	

Input Point Specification*1

Max. Input frequency	10kHz	20kHz	100kHz	200kHz	
Input signal type	SINK / SOURCE				
Input signal voltage	24VDC ± 10% (5mA)				
Response time	EH2/EH3/SV/PM	OFF→ON: 20μs ON→OFF: 50μs	ES/EX/SS/SA/SX/SC SS2/SX2 OFF→ON: 3.5μs ON→OFF: 20μs	SC/ES2/EX2/SA2/SX2 OFF→ON: 2.5μs ON→OFF: 5μs	EH2/EH3/SV/SV2/PM OFF→ON: 0.15μs ON→OFF: 3μs
	ES2/EX2				
	ES/EX				
	SS/SA/SX/SC				
	SS2				
	SA2/SX2/SE				

*1. For more detailed specifications, see "Specification" section in the instruction sheet of each model.

*2. When the input point on MPU conducts only general input functions, use D1020 or D1021 to adjust the response time. (Default: 10ms)

Output Point Specification*1

	Transistor-T	Relay-R		
		General speed	High speed	
Max. exchange (working) frequency	1Hz ⁻²	10kHz	100kHz	200kHz
Current spec.	EH2/EH3/SV/PM ES2/EX2	2A	SA2/SX2/ES2/EX2 Resistive: 0.5A/point (4A/COM) Conductive: 12W (24VDC) Light bulb: 2W (24VDC)	EH2/EH3/SV/PM Resistive: 0.5A/point (4A/COM) Conductive: 12W (24VDC) Light bulb: 2W (24VDC)
	SS/SA/SX/SC SS2/SA2/SX2	1.5A	SC <1kHz, 0.3A/point@40°C ≧1kHz, 30mA/point@40°C	
				Voltage spec.
Response time	10ms	OFF→ON: 20μs ON→OFF: 30μs	OFF→ON: 2μs ON→OFF: 3μs	OFF→ON: 0.5μs ON→OFF: 2.5μs

*1. For more detailed specifications, see "Specification" section in the instruction sheet of each model.

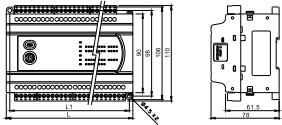
*2. Relay life: Resistive load -> more than 200,000 times; conductive load -> more than 80,000 times.

*1. Contact your sales representative for the official launch date of the left-side high-speed extension modules.
*2. DVP32EH00R2-L & DVP32EH00T2-L are also compatible with the left-side high-speed extension modules.

Dimensions

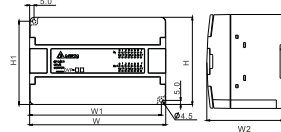
ES2/EX2 Series MPU

Model name (mm)	L	L1
DVP16ES200R/T	105	97
DVP24ES200R/T	125	117
DVP32ES200R/T	145	137
DVP32ES200R/C	145	137
DVP32ES200TC	145	137
DVP32ES211T	145	137
DVP40ES200R/T	165	157
DVP60ES200R/T	225	217
DVP20EX200R/T	145	137
DVP30EX200R/T	165	157



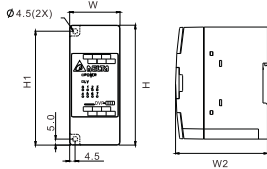
ES/EX Series MPU

Model name (mm)	H	H1	W	W1	W2
DVP14ES00R2/T2	100	95	104	99	82
DVP24ES00(1)R2/T2	100	95	155	150	82
DVP30ES00R2/T2	100	95	155	150	82
DVP32ES00R2/T2	100	95	155	150	82
DVP40ES00R2/T2	100	95	155	150	82
DVP60ES00R2/T2	100	85.5	185	180.5	89.6
DVP20EX00(1)R2/T2	100	95	155	150	82



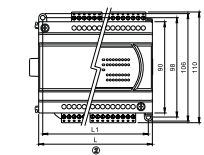
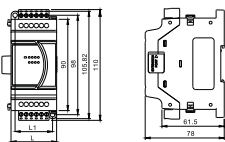
ES/EX Series Extension Modules

Model name (mm)	H	H1	W	W1	W2
DVP08XM11N	100	95	42	37.5	82
DVP16XM11N	100	95	104	99	82
DVP08XN11R/T	100	95	42	37.5	82
DVP16XN11R/T	100	95	155	150	82
DVP24XN11R/T	100	95	155	150	82
DVP24XN00R/T	100	95	155	150	82
DVP08XP11R/T	100	95	42	37.5	82
DVP24XP11R/T	100	95	155	150	82
DVP24XP00R/T	100	95	155	150	82
DVP32XP00R/T	100	95	155	150	82



ES2/EX2 Series Extension Modules

Model name (mm)	L	L1	Type
DVP08XM211N	45	37	○
DVP08XP211R/T	45	37	○
DVP08XN211R/T	45	37	○
DVP16XM211N	70	62	○
DVP16XP211R/T	70	62	○
DVP16XN211R/T	70	62	○
DVP24XP200R/T	145	137	○
DVP24XN200R/T	145	137	○
DVP32XP200R/T	145	137	○
DVP04AD-E2	70	62	○
DVP02DA-E2	70	62	○
DVP04DA-E2	70	62	○
DVP06XA-E2	70	62	○
DVP04PT-E2	70	62	○
DVP04TC-E2	70	62	○



PM Series MPU

Model name (mm)	H	H1	W	W1	W2
DVP20PM00D	90	80	174	164	82
DVP20PM00M	90	80	174	164	82

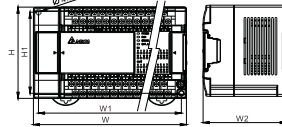
MC Series MPU

Model name (mm)	H	H1	W	W1	W2
DVP10MC11T	90	80	174	164	82

EH3 Series MPU

Model name (mm)	H	H1	W	W1	W2
DVP16EH00R3/T3	90	80	113	103	82
DVP20EH00R3/T3	90	80	113	103	82
DVP32EH00M3	90	80	143.5	133.5	82
DVP32EH00R3/T3	90	80	143.5	133.5	82
DVP32EH00R3-L	90	80	143.5	133.5	82
DVP32EH00T3-L	90	80	143.5	133.5	82
DVP40EH00R3/T3	90	80	158.8	153.8	82
DVP48EH00R3/T3	90	80	174	164	82
DVP64EH00R3/T3	90	80	212	202	82
DVP80EH00R3/T3	90	80	276	266	82

*The dimensions of DVP-EH2 models are the same as DVP-EH3 models

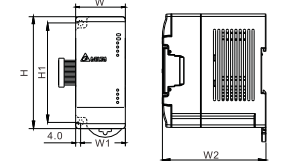


EH3 Series Extension Modules

Model name (mm)	H	H1	W	W1	W2
DVP08HM11N	90	80	40	36	82
DVP16HM11N	90	80	55	51	82
DVP08HN11R/T	90	80	40	36	82
DVP32HN00R/T	90	80	143.5	133.5	82.2
DVP08HP11R/T	90	80	40	36	82
DVP16HP11R/T	90	80	55	51	82
DVP32HP00R/T	90	80	143.5	133.5	82.2
DVP48HP00R/T	90	80	174	164	82.2

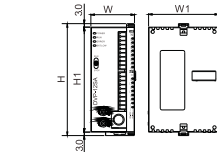
Model name (mm)	H	H1	W	W1	W2
DVP04AD-H2	90	80	60	56	82
DVP04DA-H2	90	80	60	56	82
DVP06XA-H2	90	80	60	56	82
DVP04PT-H2	90	80	60	56	82
DVP04TC-H2	90	80	60	56	82
DVP01PU-H2	90	80	60	56	82
DVPDT02-H2	90	80	40	46	82
DVPCP02-H2	90	80	40	46	82
DVPPF02-H2	90	80	40	46	82

*The dimensions of DVP-EH2 models are the same as DVP-EH3 models



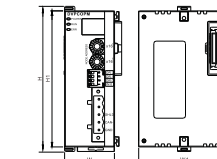
SS/SA/SE/SX/SC/SS2/SA2 Series MPU

Model name (mm)	H	H1	W	W1
DVP14SS11R2/T2	96	90	25.2	60
DVP14SS211R/T	96	90	25.2	60
DVP12SA11R/T	96	90	37.4	60
DVP12SA211R/T	96	90	37.4	60
DVP12SE11R/T	96	90	37.4	60
DVP10SX11R/T	96	90	37.4	60
DVP12SC11T	96	90	37.4	60

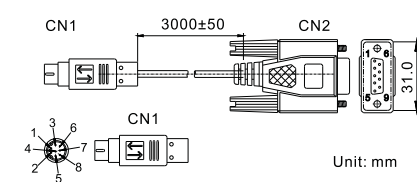


Left-Side High-Speed Extension Modules

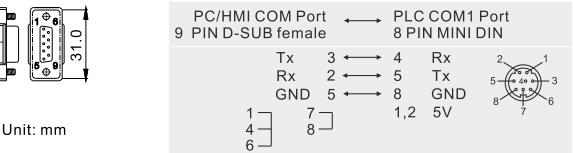
Model name (mm)	H	H1	W	W1
DVPEN01-SL	96	90	33.1	60
DVPCOPM-SL	96	90	33.1	60
DVPDNET-SL	96	90	33.1	60
DVP04AD-SL	96	90	33.1	60
DVP04DA-SL	96	90	33.1	60
DVP02LC-SL	96	90	33.1	60



PIN Definition of DVPACAB2A30



Unit: mm



PC/HMI COM Port 9 PIN D-SUB female ↔ PLC COM1 Port 8 PIN MINI DIN

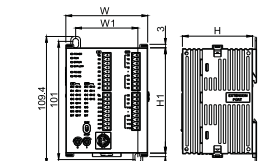
Tx 3 ↔ 4 Rx
Rx 2 ↔ 5 Tx
GND 5 ↔ 8 GND

1,2 5V
1 2
3 3
4 4
5 5
6 6
7 7
8 8

Unit: mm

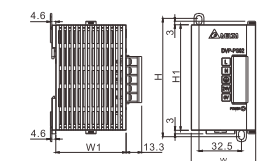
SV/SV2/SX2 Series MPU

Model name (mm)	H	H1	W	W1
DVP28SV11R/T	60	90	70	53.2
DVP20SX211R/T/S	60	90	70	53.2



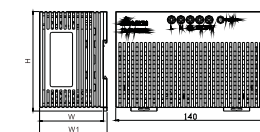
PS01/02 Power Supply Modules

Model name (mm)	H	H1	W	W1
DVPPS01	100	90	36.5	60
DVPPS02	100	90	55	60



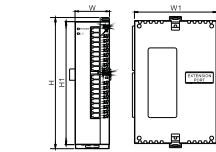
PS05 Power Supply Modules

Model name (mm)	H	H1	W	W1
DVPPS05	93.3	90	60	63.4



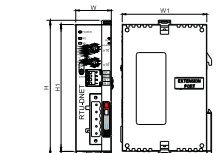
S Series Extension Modules

Model name (mm)	H	H1	W	W1
DVP08SM11N	96	90	25.2	60
DVP08SN11R	96	90	25.2	60
DVP08SN11R/T	96	90	25.2	60
DVP08SP11R/T	96	90	25.2	60
DVP16SP11R/T	96	90	25.2	60
DVP16SN11T	96	90	25.2	60
DVP04AD-S	96	90	25.2	60
DVP06AD-S	96	90	25.2	60
DVP02DA-S	96	90	25.2	60
DVP04DA-S	96	90	25.2	60
DVP06XA-S	96	90	25.2	60
DVP04PT-S	96	90	25.2	60
DVP04TC-S	96	90	25.2	60
DVP01PU-S	96	90	25.2	60
DVPPF01-S	96	90	25.2	60
DVPDT01-S	96	90	25.2	60



Remote I/O Modules

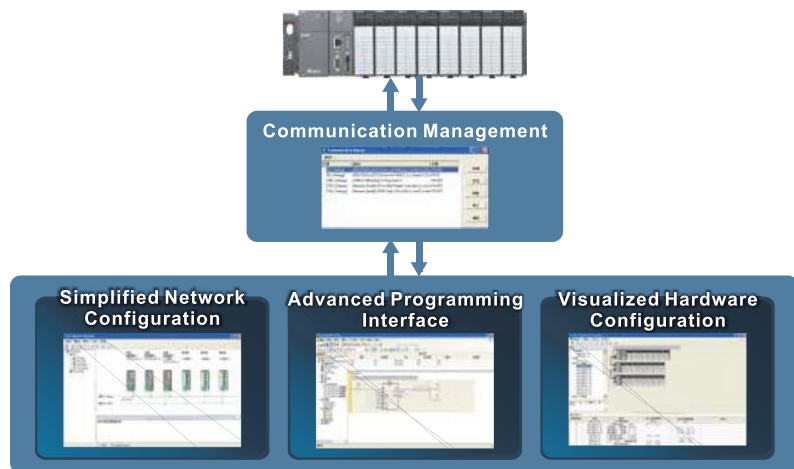
Model name (mm)	H	H1	W	W1
RTU-DNET	96	90	25.2	60
RTU-485	96	90	25.2	60
RTU-EN01	96	90	25.2	60
RTU-PT01	96	90	25.2	60



ISPSOft V2.0 Highly Accessible Programming Software

Fully Integrated Interface:

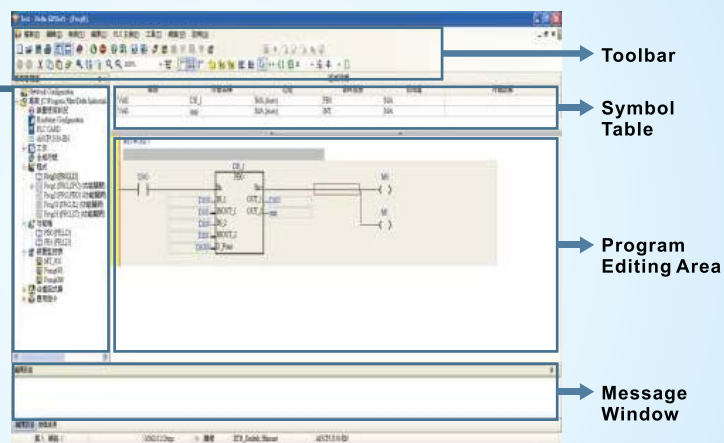
Advanced Programming Interface + Visualized Hardware Configuration + Simplified Network Configuration



Advanced Programming Interface

Project management window

- New functions: Network Configuration, Hardware Configuration and PLC Card.
- Supports 5 programming languages (LD/FBD/SFC/IL/ST) in both main program and FB.
- Function Blocks: Symbols can be introduced in call-by-value or call-by-reference types. Function blocks can be called in function block for up to 32 levels.
- Monitor Table: Monitor tables can be stored and managed separately. Multiple monitor tables can be stored in a single project.
- Delta Library: Users can design frequently used instructions for specific applications in different industries.
- Task: Supports external interrupts and timer interrupts.



Toolbar

Symbol Table

Program Editing Area

Message Window

Visualized Hardware Configuration

The screenshot shows a rack configuration interface with a list of modules on the left and a rack diagram in the center. A table at the bottom provides detailed information about the modules.

Module No.	Module Name	Module Description	Module I/O	Module Address	Module Comment
1	AI5AD16-5A	5通道16位AI	AI5 × 16bit	0000 - 0015	
2	AI5AD12-5A	5通道12位AI	AI5 × 12bit	0016 - 0031	
3	AI5AD8-5A	5通道8位AI	AI5 × 8bit	0032 - 0047	
4	AI5AD4-5A	5通道4位AI	AI5 × 4bit	0048 - 0063	
5	AI5AD2-5A	5通道2位AI	AI5 × 2bit	0064 - 0079	
6	AI5AD1-5A	5通道1位AI	AI5 × 1bit	0080 - 0095	
7	AI5AD0-5A	5通道0位AI	AI5 × 0bit	0096 - 0111	

Module Selection

Module Description

Toolbar

- System hardware configuration can be monitored in On-Line mode
- Hardware configuration can be displayed by Scan function

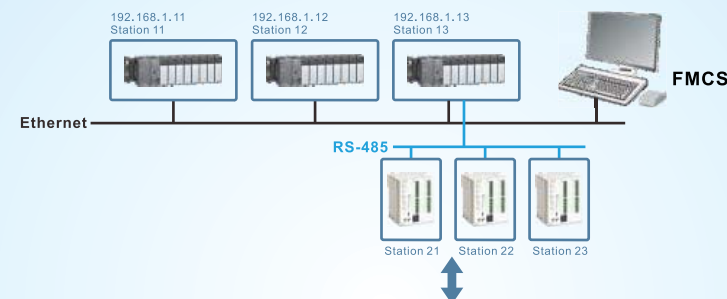
Hardware Configuration Area

- Operations of Cut/Copy/Paste/Delete are available for modules and racks
- Parameters of each module can be directly configured

Rack Information

- I/O device range can be specified by the user

Simplified Network Configuration



The screenshot shows a network configuration interface with a list of network devices on the left and a network diagram in the center. Two inset windows show 'Ether Link' and 'PLC Link' configuration options.

Network Device Selection

Toolbar

Network Configuration Area

- Master device settings
- Ether Link editing function
- PLC Link editing function

Network Information

Model Name Explanation

<p>• MPU</p> <p>DVP ○ ○ □ □ ○ ○ □ □</p> <p>Series ① ② ③ ④ ⑤</p> <ol style="list-style-type: none"> Total I/O points Model <ul style="list-style-type: none"> ES/ES2 : ES/ES2 series MPU EX/EX2 : EX/EX2 series MPU SS/SS2 : SS/SS2 series MPU SA/SA2 : SA/SA2 series MPU SX/SX2 : SX/SX2 series MPU SC : SC series MPU SV : SV series MPU PM : PM series MPU EH : EH series MPU Power supply <ul style="list-style-type: none"> 00 : AC power input 11 : DC power input Output type <ul style="list-style-type: none"> R : Relay T : Transistor (NPN) M : Mixed with differential signal S : Transistor (PNP) Version 	<p>• DI/DO Module</p> <p>DVP ○ ○ □ □ ○ ○ □ □</p> <p>Series ① ② ③ ④ ⑤</p> <ol style="list-style-type: none"> Total I/O points Model <ul style="list-style-type: none"> X : For ES/EX/ES2/EX2 series MPU S : For SS/SA/SX series MPU For SS2/SA2/SX2 series MPU For SC/SE/SV/SV2 series MPU H : For EH/EH2/EH3/PM series MPU I/O type <ul style="list-style-type: none"> M : Input point N : Output point P : Input + output Power supply <ul style="list-style-type: none"> 00 : AC power input 11 : DC power input Output type <ul style="list-style-type: none"> R : Relay T : Transistor (NPN) TS : Transistor (PNP) 	<p>• AI/AO Module</p> <p>DVP ○ ○ □ □ □ □ □ □</p> <p>Series ① ② ③</p> <ol style="list-style-type: none"> Total I/O points Model <ul style="list-style-type: none"> AD : Analog/digital conversion DA : Digital/analog conversion PT : PT100 type temperature module TC : Thermocouple type temperature Module XA : AD + DA module Model <ul style="list-style-type: none"> S : For SS/SA/SX series MPU For SS2/SA2/SX2 series MPU For SC/SE/SV/SV2 series MPU H : For EH/EH2/EH3/PM series MPU H2 : For EH2 series MPU H3 : For EH3 series MPU SL : For MPU with left-side interface E : For ES/EX series MPU E2 : For ES2/EX2 series MPU
<p>• PI/PO Module</p> <p>DVP ○ ○ □ □ □ □ □ □</p> <p>Series ① ② ③</p> <ol style="list-style-type: none"> Total I/O points Model <ul style="list-style-type: none"> HC : High-speed counter PU : Single-axis positioning module Model <ul style="list-style-type: none"> H : For EH/EH2/EH3/PM series MPU S : For SS/SA/SX series MPU For SS2/SA2/SX2 series MPU For SC/SE/SV/SV2 series MPU SL : left-side extension for SV series MPU 	<p>• Peripherals</p> <p>DVP □ □ □ □ ○ ○</p> <p>Series ① ②</p> <ol style="list-style-type: none"> Product name <ul style="list-style-type: none"> HPP : Handheld programming panel DU : Digital display panel Type/function <ul style="list-style-type: none"> 01 : Type 01 02 : Type 02 03 : Type 03 	<p>• Network Module</p> <p>DVP □ □ □ □ ○ ○ □ □</p> <p>Series ① ②</p> <ol style="list-style-type: none"> Model <ul style="list-style-type: none"> EN01 : MODBUS TCP DNET : DeviceNet master COPM : CANopen master CP02 : CANopen master DT01/02 : DeviceNet master PF01/02 : PROFIBUS DP master Model <ul style="list-style-type: none"> SL : left-side extension for SV series MPU H2 : For EH2 series MPU H3 : For EH3 series MPU S : For Slim series MPU
<p>• Accessory: Cable</p> <p>DVP A CAB ○ ○ ○ ○</p> <p>Series ① ② ③ ④</p> <ol style="list-style-type: none"> Accessory Type <ul style="list-style-type: none"> CAB : Cable Type <ul style="list-style-type: none"> 1, 2, 3, 4, Length <ul style="list-style-type: none"> 15 : 1.5m 30 : 3.0m 	<p>• Remote I/O</p> <p>RTU □ □ □ □ ○ ○</p> <p>Series ①</p> <ol style="list-style-type: none"> Model <ul style="list-style-type: none"> DNET : DeviceNet 485 : RS-485 EN01 : MODBUS TCP 	<p>• Function Card</p> <p>DVP - F ○ ○ ○ ○ □ □ □ □</p> <p>Series ① ② ③</p> <ol style="list-style-type: none"> Function Card Type <ul style="list-style-type: none"> 232 : RS-232 card 422 : RS-422 card 2OT : 2DO card, transistor output... Particular definition <ul style="list-style-type: none"> S : Slave mode (applicable to COM3 coding only)
<p>• Accessory: Other</p> <p>DVP A BT ○ ○</p> <p>① ② ③</p> <ol style="list-style-type: none"> Accessory Type <ul style="list-style-type: none"> Bt : Battery Type : 01, 02 		


Select A Suitable PLC

Select your desired specifications and locate the most suitable MPU.										
What do you need?	Select specifications	Check	Locate MPU							
Item	Spec.	Check	Model							
			ES2	EX2	EH3	SS2	SA2	SX2	SV2	SE
Power supply	AC	<input type="checkbox"/>	⊙	⊙	○					
	DC	<input type="checkbox"/>				○	○	○	○	○
I/O points	< 256	<input type="checkbox"/>	△	△						
	< 512	<input type="checkbox"/>			△	△	△	△	△	△
Program capacity	< 8k	<input type="checkbox"/>				○				
	< 16k	<input type="checkbox"/>	○	○		○	○	○	○	○
	< 32k	<input type="checkbox"/>			○				○	
Output type	Transistor (NPN)	<input type="checkbox"/>	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	Transistor (PNP)	<input type="checkbox"/>				△	△	⊙	△	△
	Relay	<input type="checkbox"/>	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	Differential signal	<input type="checkbox"/>			⊙					
Communication	3 COM ports (RS-232/485)	<input type="checkbox"/>	○	○	△		○	○	△	○
	Ethernet	<input type="checkbox"/>			△		△	△	△	○
	DeviceNet	<input type="checkbox"/>			△		△ ^{*1}	△ ^{*1}	△ ^{*1}	△
	CANopen	<input type="checkbox"/>			△		△	△	△	△
	PROFIBUS	<input type="checkbox"/>			△		△	△	△	△
Positioning	2-axis output	<input type="checkbox"/>	○	○	○	○	○	○		
	4-axis output	<input type="checkbox"/>			⊙				○	○
	> 4 axes	<input type="checkbox"/>			△	△	△	△	△	△
	2-axis interpolation	<input type="checkbox"/>	○	○	○		○	○	○	○
High-speed counting	200kHz high speed	<input type="checkbox"/>			○	△	△	△	○	○
	< 2 channels	<input type="checkbox"/>	○	○		○	○	○		○
	> 3 channels	<input type="checkbox"/>			○ ^{*3}	△	△	△	○	
Analog function	200kHz high speed	<input type="checkbox"/>			○	△	△	△	○	
	< 4 channels (AD)	<input type="checkbox"/>	△	○	△	△	△	○	△	△
	< 2 channels (DA)	<input type="checkbox"/>	△	○ ^{*2}	△	△	△	○ ^{*2}	△	△


Note:
 ○ : With such specification · ⊙ : Varies upon model · △ : With such specification when connected to extension module
^{*1} : S series and EH2 series support only slave. SV/SX2/SA2/EH3-L series support both master and slave.
^{*2} : EX/SX2 series have 4 channels of analog input and 2 channels of analog output.
^{*3} : Besides the built-in 8 channels of high-speed counters, EH2 series can be connected to high-speed counter modules.

Ordering Information


ES/EX Series MPU

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
ES series standard MPU	100~240VAC	Relay	8	6	DVP14ES00R2	
	100~240VAC	Transistor	8	6	DVP14ES00T2	
	100~240VAC	Relay	16	8	DVP24ES00R2	
	100~240VAC	Transistor	16	8	DVP24ES00T2	
	100~240VAC	Relay	18	12	DVP30ES00R2	
	100~240VAC	Transistor	18	12	DVP30ES00T2	
	100~240VAC	Relay	16	16	DVP32ES00R2	
	100~240VAC	Transistor	16	16	DVP32ES00T2	
	100~240VAC	Relay	24	16	DVP40ES00R2	
	100~240VAC	Transistor	24	16	DVP40ES00T2	
EX series analog MPU	100~240VAC	Relay	8	6	DVP20EX00R2	
		Analog	4	2	DVP20EX00T2	
	100~240VAC	Transistor	8	6	DVP20EX00R2	
		Analog	4	2	DVP20EX00T2	
	24VDC	Relay	8	6	DVP20EX11R2	
		Analog	4	2	DVP20EX11T2	


ES/EX Series Digital/Analog Module

Product name	Output method	Inputs	Outputs	Model name	Certificates
Digital module	-	8	-	DVP08XM11N	
	Relay	-	8	DVP08XN11R	
	Transistor	-	8	DVP08XN11T	
	-	16	-	DVP16XM11N	
	Relay	-	16	DVP16XN11R	
	Transistor	-	16	DVP16XN11T	
	Relay	-	24	DVP24XN11R	
	Transistor	-	24	DVP24XN11T	
	Relay	4	4	DVP08XP11R	
	Transistor	4	4	DVP08XP11T	
	Relay	16	8	DVP24XP11R	
	Transistor	16	8	DVP24XP11T	
	Relay	16	16	DVP32XP11R	
	Transistor	16	16	DVP32XP11T	

ES2/EX2 Series Digital I/O Module (AC power supply)


Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
ES2/EX2 digital module	100~240VAC	Relay	-	24	DVP24XN200R	
	100~240VAC	Transistor	-	24	DVP24XN200T	
	100~240VAC	Relay	16	8	DVP24XP200R	
	100~240VAC	Transistor	16	8	DVP24XP200T	
	100~240VAC	Relay	16	16	DVP32XP200R	
	100~240VAC	Transistor	16	16	DVP32XP200T	

EC3 Series MPU

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
EC3 series standard MPU	100~240VAC	Relay	6	4	DVP10EC00R3	
	100~240VAC	Transistor	6	4	DVP10EC00T3	
	100~240VAC	Relay	8	6	DVP14EC00R3	
	100~240VAC	Transistor	8	6	DVP14EC00T3	
	100~240VAC	Relay	8	8	DVP16EC00R3	
	100~240VAC	Transistor	8	8	DVP16EC00T3	
	100~240VAC	Relay	12	8	DVP20EC00R3	
	100~240VAC	Transistor	12	8	DVP20EC00T3	
	100~240VAC	Relay	12	12	DVP24EC00R3	
	100~240VAC	Transistor	12	12	DVP24EC00T3	
	100~240VAC	Relay	18	12	DVP30EC00R3	
	100~240VAC	Transistor	18	12	DVP30EC00T3	
	100~240VAC	Relay	16	16	DVP32EC00R3	
	100~240VAC	Transistor	16	16	DVP32EC00T3	
	100~240VAC	Relay	24	16	DVP40EC00R3	
	100~240VAC	Transistor	24	16	DVP40EC00T3	
	100~240VAC	Relay	36	24	DVP60EC00R3	
	100~240VAC	Transistor	36	24	DVP60EC00T3	

Fastest execution time of basic instructions: 3.8μs Execution time of MOV instruction: 5.04μs

ES2/EX2 Series MPU

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
ES2 series standard MPU	100~240VAC	Relay	8	8	DVP16ES200R	
	100~240VAC	Transistor	8	8	DVP16ES200T	
	100~240VAC	Relay	16	8	DVP24ES200R	
	100~240VAC	Transistor	16	8	DVP24ES200T	
	100~240VAC	Relay	16	16	DVP32ES200R	
	100~240VAC	Transistor	16	16	DVP32ES200T	
	24VDC	Transistor	16	16	DVP32ES211T	
	100~240VAC	Relay	24	16	DVP40ES200R	
	100~240VAC	Transistor	24	16	DVP40ES200T	
	100~240VAC	Relay	36	24	DVP60ES200R	
	100~240VAC	Transistor	36	24	DVP60ES200T	
	DVP-ES2 Second Generation Standard PLC (CANopen)	100~240VAC	Relay	36	24	
100~240VAC		Transistor	36	24	DVP32ES200TC	
EX2 series analog MPU	100~240VAC	Relay	8	6	DVP20EX200R	
		Analog	4	2	DVP20EX200T	
	100~240VAC	Transistor	8	6	DVP20EX200T	
		Analog	4	2	DVP20EX200T	
	100~240VAC	Relay	16	10	DVP30EX200R	
		Analog	3	1	DVP30EX200T	
100~240VAC	Transistor	16	10	DVP30EX200T		
	Analog	3	1	DVP30EX200T		

Fastest execution time of basic instructions: 0.35μs Execution time of MOV instruction: 3.4μs

Ordering Information

ES2/EX2 Series Digital / Analog Module (DC24V)

Product name	Output method	Inputs	Outputs	Model name	Certificates
ES2/EX2 series digital module	-	8	-	DVP08XM211N	
	Relay	-	8	DVP08XN211R	
	Transistor	-	8	DVP08XN211T	
	Relay	4	4	DVP08XP211R	
	Transistor	4	4	DVP08XP211T	
	-	16	-	DVP16XM211N	
	Relay	-	16	DVP16XN211R	
	Transistor	-	16	DVP16XN211T	
	Relay	8	8	DVP16XP211R	
ES2/EX2 series analog I/O module	■ 4 points of analog voltage (10V, 5V) / current (20mA, 0~20mA, 4~20mA) input *1 ■ Resolution: 14-bit (-32,000~+32,000)			DVP04AD-E2	
	■ 4 points of analog voltage (-10V~+10V) / current (0~20mA, 4~20mA) output ■ Resolution: 14-bit (-32,000~+32,000) / (0~+32,000)			DVP04DA-E2	
	■ 2 points of analog voltage (-10V~+10V) / current (0~20mA, 4~20mA) output *1 ■ Resolution: 14-bit (-32,000~+32,000) / (0~+32,000)			DVP02DA-E2	
	■ 4 points of analog voltage (10V, 5V) / current (20mA, 0~20mA, 4~20mA) input *1 ■ Input resolution: 14-bit (-32,000~+32,000) ■ 2 points of analog voltage (-10V~+10V) / current (0~20mA, 4~20mA) output ■ Output resolution: 14-bit (-32,000~+32,000) / (0~+32,000)			DVP06XA-E2	
ES2/EX2 series temperature measurement module	■ 4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input / 0~300Ω resistance input *1 ■ Resolution: 16-bit ■ With PID temperature control			DVP04PT-E2	
	■ 4 points of thermocouple (J, K, R, S, T, E, N Type) sensor input / -80mV~+80mV voltage input *1 ■ Resolution: 20-bit ■ With PID temperature control			DVP04TC-E2	

*1. Digital/analog photocoupler isolation. No isolation among channels.

EH2/EH3 Series MPU

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
EH2/EH3 series standard MPU	100~240VAC	Relay	8	8	DVP16EH00R2/DVP16EH00R3	
	100~240VAC	Transistor	8	8	DVP16EH00T2/DVP16EH00T3	
	100~240VAC	Relay	12	8	DVP20EH00R2/DVP20EH00R3	
	100~240VAC	Transistor	12	8	DVP20EH00T2/DVP20EH00T3	
	100~240VAC	Transistor	16	16	DVP32EH00T2/DVP32EH00T3	
	100~240VAC	Relay	16	16	DVP32EH00R2/DVP32EH00R3	
	100~240VAC	Differential	16	16	DVP32EH00M2/DVP32EH00M3	
	100~240VAC	Relay	16	16	DVP32EH00R2-L/DVP32EH00R3-L	
		Transistor	16	16	DVP32EH00T2-L/DVP32EH00T3-L	
	100~240VAC	Transistor	24	16	DVP40EH00T2/DVP40EH00T3	
	100~240VAC	Relay	24	16	DVP40EH00R2/DVP40EH00R3	
	100~240VAC	Relay	24	24	DVP48EH00R2/DVP48EH00R3	
	100~240VAC	Transistor	24	24	DVP48EH00T2/DVP48EH00T3	
	100~240VAC	Relay	32	32	DVP64EH00R2/DVP64EH00R3	
	100~240VAC	Transistor	32	32	DVP64EH00T2/DVP64EH00T3	
	100~240VAC	Relay	40	40	DVP80EH00R2/DVP80EH00R3	
	100~240VAC	Transistor	40	40	DVP80EH00T2/DVP80EH00T3	
Execution time of basic instructions					0.24μs	

EH2/EH3 Series Digital/Analog Module

Product name	Output method	Inputs	Outputs	Model name	Certificates
Digital module	Relay	4	4	DVP08HP11R	
	Transistor	4	4	DVP08HP11T	
	Relay	-	8	DVP08HN11R	
	Transistor	-	8	DVP08HN11T	
	-	8	-	DVP08HM11N	
	Relay	8	8	DVP16HP11R	
	Transistor	8	8	DVP16HP11T	
	-	16	-	DVP16HM11N	
	Relay	-	32	DVP32HN00R	
	Transistor	-	32	DVP32HN00T	
	Relay	16	16	DVP32HP11R	
	Transistor	16	16	DVP32HP11T	
Analog module	Relay	24	24	DVP48HP00R	
	Transistor	24	24	DVP48HP00T	
	■ 4 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) *1 ■ Input resolution: 14-bit ■ Built-in RS-485 interface			DVP04AD-H2	
	■ 4 points of analog voltage (0V~+10V)/current (0mA~+20mA) output *1 ■ Resolution: 12-bit ■ Built-in RS-485 interface			DVP04DA-H2	
	■ 4 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) input ■ 2 points of analog voltage (0V~+10V)/current (0mA~+20mA) output ■ Resolution: 12-bit ■ Built-in RS-485 interface			DVP06XA-H2	
	■ 4 points of platinum RTD (PT100) sensor input *1 ■ Resolution: 0.1°C ■ Built-in RS-485 interface			DVP04PT-H2	
■ 4 points of thermocouple (J, K, R, S, T type) sensor input *1 ■ Resolution: 0.1°C ■ Built-in RS-485 interface			DVP04TC-H2		
	■ 8 points of thermocouple (J, K, R, S, T type) sensor input *1 ■ Resolution: 0.1°C ■ Built-in RS-485 interface			DVP08TC-H2	

*1. Digital/analog photocoupler isolation. No isolation among channels.

EH2/EH3 Series Extension Module / Function Card

Product name	Output method	Inputs	Outputs	Model name	Certificates	
Positioning module	Servo position control module (single axis, 200kHz)			DVP01PU-H2		
High-speed counter	High-speed counter module (1CH)			DVP01HC-H2		
Communication module	PROFIBUS DP slave communication module			DVPPF02-H2		
	CANopen slave communication module			DVPCP02-H2		
	DeviceNet slave communication module			DVPDT02-H2		
Function card	RS-232 port conversion (COM2) (EH2: COM2; EH3: COM3)			DVP-F232		
	RS-422 port conversion (COM2) (EH2: COM2; EH3: COM3)			DVP-F422		
	RS-232 port extension (COM3), function Cards			DVP-F232S		
	RS-485 port extension (COM3), function Cards			DVP-F485S		
	RS-485 port extension (COM3), function Cards (DVP-EH3 only)			DVP-F485		
	■ 2 points of analog voltage (0~10V)/current (0~20mA) input ■ Resolution: 12-bit			DVP-F2AD		
	■ 2 points of analog voltage (0~10V)/current (0~20mA) output ■ Resolution: 12-bit			DVP-F2DA		
	Ethernet communication card			DVP-FEN01		
	Digital display panel	Displays data in register and real-time clock.				DVPDU01

Ordering Information

S Series MPU

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
SV2 series functional MPU	24VDC	Relay	16	12	DVP28SV211R	
	24VDC	Transistor	16	12	DVP28SV211T	
SV series functional MPU	24VDC	Relay	16	12	DVP28SV11R	
	24VDC	Transistor	16	12	DVP28SV11T	
Execution time of basic instructions			0.24µs			

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates	
SS2 series standard MPU	24VDC	Relay	8	6	DVP14SS211R		
	24VDC	Transistor	8	6	DVP14SS211T		
SA2 series advance MPU	24VDC	Relay	8	4	DVP12SA211R		
	24VDC	Transistor	8	4	DVP12SA211T		
SE series network MPU	24VDC	Relay	8	4	DVP12SE11R		
	24VDC	Transistor	8	4	DVP12SE11T		
SX2 series analog MPU	24VDC	Relay	8 (4AI)	6(2AO)	DVP20SX211R		
	24VDC	Transistor (NPN)	8 (4AI)	6(2AO)	DVP20SX211T		
	24VDC	Transistor (PNP)	8 (4AI)	6(2AO)	DVP20SX211S		
Fastest execution time of basic instructions			0.35µs			Execution time of MOV instruction	
						3.4µs	

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates	
SS series standard MPU	24VDC	Relay	8	6	DVP14SS11R2		
	24VDC	Transistor	8	6	DVP14SS11T2		
SA series advance MPU	24VDC	Relay	8	4	DVP12SA11R		
	24VDC	Transistor	8	4	DVP12SA11T		
SX series analog MPU	24VDC	Relay	4 (2AI)	2 (2AO)	DVP10SX11R		
	24VDC	Transistor	4 (2AI)	2 (2AO)	DVP10SX11T		
SC series positioning MPU	24VDC	Transistor	8	4	DVP12SC11T		
Execution time of basic instructions			3.8µs				Execution time of MOV instruction
						5.04µs	

S Series Digital/Analog Module

Product name	Output method	Inputs	Outputs	Model name	Certificates
Digital module	Relay	-	6	DVP06SN11R	
	Relay	-	8	DVP08SN11R	
	Transistor	-	8	DVP08SN11T	
	Transistor	-	16	DVP16SN11T	
	Relay	4	4	DVP08SP11R	
	Transistor	4	4	DVP08SP11T	
	-	8	-	DVP08SM11N	
	-	8	-	DVP08SM10N	
	Digital switch	8	-	DVP08ST11N	
	Relay	8	8	DVP16SP11R	
	Transistor (NPN)	8	8	DVP16SP11T	
	Transistor (PNP)	8	8	DVP16SP11TS	
	-	16	-	DVP16SM11N	
	Transistor, Pin header	-	32	DVP32SN11TN	
Pin header	32	-	DVP32SM11N		
Analog I/O module	■ 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) *1 ■ Input resolution: 14-bit ■ Built-in RS-485 interface			DVP04AD-S	
	■ 4 points of analog input voltage (0V~+10V)/current (0mA~+20mA) *1 ■ Resolution: 12-bit ■ Built-in RS-485 interface			DVP04DA-S	
	■ 2 points of analog input voltage (0V~+10V)/current (0mA~+20mA) *1 ■ Resolution: 12-bit ■ Built-in RS-485 interface			DVP02DA-S	
	■ 6 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) *1 ■ Input resolution: 14-bit ■ Built-in RS-485 interface			DVP06AD-S	
	■ Analog input+output module (6 points) ■ 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) ■ 2 points of analog input voltage (0V~+10V)/current (0mA~+20mA) ■ Resolution: 12-bit ■ Built-in RS-485 interface			DVP06XA-S	

S Series Extension Module / Left-Side High-Speed Module

Product name	Power supply	Inputs	Outputs	Model name	Certificates
Left-side high-speed analog I/O module	■ 4 groups of analog input *1 ■ Signal range: 1~5 V, 0~5 V, -5~5V, 0~10 V, -10~10 V, 4~20mA, 0~20mA, -20~20mA ■ Resolution: 16-bit ■ Single channel On/Off setup enhances entire conversion efficiency. ■ Conversion time: 250µs/point ■ Off-line alarm (1~5 V, 4~20mA)			DVP04AD-SL	
	■ 4 groups of analog input *1 ■ Signal range: 0~10 V, -10~10 V, 4~20mA, 0~20mA ■ Resolution: 16-bit ■ Offers single channel On/Off setup ■ Conversion time: 250µs/point			DVP04DA-SL	
Left-side high-speed load cell module	■ 2 load cell modules *1 ■ Resolution: 20-bit ■ Connectable to 4-wire/6-wire load cell sensor ■ Measurable range: 0~6mV/V			DVP02LC-SL	
Temperature measurement module	■ 4 points of platinum RTD (PT100) sensor input *1 ■ Resolution: 0.1°C ■ Built-in RS-485 interface			DVP04PT-S	
	■ 4 points of thermocouple (J · K · R · S · T type) sensor input *1 ■ Resolution: 0.1°C ■ Built-in RS-485 interface			DVP04TC-S	
Positioning module	Servo position control module (single axis, 200kHz)			DVP01PU-S	
Communication module	DeviceNet slave communication module			DVPDT01-S	
	PROFIBUS DP slave communication module			DVPPF01-S	
Left-side high-speed communication module	Ethernet communication module, 10/100Mbps			DVPEN01-SL	
	DeviceNet master communication module, 500kbps			DVPDNET-SL	
	CANopen master communication module, 1Mbps			DVPCOPM-SL	
	PROFIBUS DP slave communication module, 12Mbps			DVPPF02-SL	
	RS-485/RS-422 module · 460kbps			DVPSCM12-SL	
Remote I/O module	RS-485 remote I/O module, connectable to S series I/O modules			RTU-485	
	Ethernet remote I/O module, connectable to S series I/O modules			RTU-EN01	
	DeviceNet remote I/O module, connectable to S series I/O modules			RTU-DNET	
	PROFIBUS remote I/O module, connectable to S series I/O modules			RTU-PD01	

*1. Digital/analog photocoupler isolation. No isolation among channels.

Communication Converter

Product name	Description	Model name	Certificates
Converter	USB to RS-485 converter	IFD6500	
	USB to CAN converter	IFD6503	
	USB to RS-485 converter	IFD6530	
	MODBUS TCP to RS-232/485 converter	IFD9506	
	EtherNet/IP to RS-232/485 converter	IFD9507	
	DeviceNet to RS-232/485 converter	IFD9502	
	CANopen to RS-232/485 converter	IFD9503	
	RS-232 to RS-485/422 isolated converter	IFD8500	
	RS-485 to RS-422 isolated repeater	IFD8510	
	RS-485/422 to RS-232 addressable isolated converter	IFD8520	

Ordering Information

PM Series

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
Professional Motion Control MPU	100~240VAC	Differential	16	16	DVP10PM00M	
		(Built-in 2-axis of independent 500kHz pulse output)				
General Purpose Motion Controller	100~240VAC	Differential	8	8	DVP20PM00D	
		(Built-in 2-axis of independent 500kHz pulse output)				
		(Built-in 3-axis of independent 500kHz pulse output)				
PM series extension module		Description		Model name		
Communication card		Ethernet/CANopen communication card		DVP-FPMC		
Memory card		Data backup memory card (64k words)		PM-PCC01		
Execution time of basic instructions		0.13µs		Execution time of MOV instruction	3.74µs	

MC Series

Product name	Power supply	Communication Mode	Inputs	Outputs	Model name	Certificates
Network Type Motion Controller	100~240VAC	CANopen DS402	8	4	DVP10MC11T	

TP Series

Product name	Description	Model name	Certificates
TP02	Resolution: 160 x 32 dots, Serial COM ports: RS-232 & RS-485	TP02G-AS1	
TP04	Resolution: 128 x 64 dots, Serial COM ports: RS-232 & RS-485/RS-422	TP04G-AS2	
	Resolution: 192 x 64 dots, Serial COM ports: RS-232 & RS-485/RS-422	TP04G-AL2	
	Resolution: 192 x 64 dots, Serial COM ports: RS-232	TP04G-AL-C	
TP08	Resolution: 192 x 64 dots, Serial COM ports: RS-232, 0~9 numeric keys available	TP04G-BL-C	
	Resolution: 240 x 128 dots, Serial COM ports: RS-232 & RS-485/RS-422, 0~9 numeric keys available	TP08G-BT2	

Peripheral Accessories

Product name	Description	Model name	Certificates
Accessory	Handheld programming panel	DVPHPP02	
	Data backup memory card (built-in 1 in DVPHPP01) (DVP-EH2 only)	DVP-256FM	
	Data backup memory card (DVP-EH3 only)	DVP-512FM	
	Data backup memory card (64k words)	DVP-PCC01	
	Communication cable for DVP-HPP series and PLC, 1.5m	DVPACAB115	
	Communication cable for PC (9-pin & 25-pin D-Sub) and PLC, 1.5m	DVPACAB215	
	Communication cable for PC (9-pin D-Sub) and PLC, 1.5m	DVPACAB2A30	
	Communication cable for PC (9-pin & 25-pin D-Sub) and PLC, 3m	DVPACAB230	
	I/O connection cable for DVP-32SM series	DVPACAB7A10	
	I/O connection cable for DVP-32SN series	DVPACAB7B10	
	Drive board for DVP-32SM series (32 points of output)	DVPAETB-ID32A	
	Drive board for DVP-32SN series (16 points of input)	DVPAETB-OR16A	
	Connection cable for DVP-HPP series and PC	DVPACAB315	
	Supports 4 types of RS-485 connectors	ADP485-01	
	Connection cable for ADP485-01 and ASDA-A series servo	ADPCAB03A	
	Connection cable for ADP485-01 and ASDA-B series servo	ADPCAB03B	
	I/O extension cable for ES/EX series, 30cm	DVPACAB403	
	Extension cable for EH series MPU and extension module, 0.7m	DVPACAB4A07	
	DeviceNet/CANopen distribution box, 1 for 2	TAP-CN01	
	DeviceNet/CANopen distribution box, 1 for 4	TAP-CN02	
	DeviceNet/CANopen distribution box, 1 for 4, RJ45 connector	TAP-CN03	
	3.6V lithium battery (unchargeable) for EH/SA/SX series MPU	DVPABT01	
	Terminal resistance for CANopen communication	TAP-TR01	
	TP Programmer Cable	DVPACAB530	

Software

Product name	Description	OS (Windows base software)
WPLSoft	Programming software for DVP-PLC	Windows 98, Me, NT4.0, 2000, XP, Vista, Windows 7(32-bit/64-bit)
ISPSOft	Programming software for DVP-PLC	Windows 2000, XP, Vista, Windows 7(32-bit/64-bit)
TPEditor	Editing software for TP series text panel	Windows 98, Me, NT4.0, 2000, XP, Vista, Windows 7(32-bit/64-bit)
PMSOft	Programming software for PM series	Windows 2000, XP, Vista
DCISOft	Delta communication integration software DVPEN01-SL, RTU-EN01, IFD9506, IFD9507	Windows 2000, XP, Vista, Windows 7(32-bit/64-bit)
DeviceNet Builder	DeviceNet configuration software	Windows 2000, XP
CANopen Builder	CANopen configuration software	Windows 2000, XP
DMT	VB, VC, DLL library for DVP-PLC	Windows 2000, XP, Vista, Windows 7(32-bit/64-bit)

Industrial Power Supply

Product name	Power supply	Inputs	Outputs	Power	Model name	Certificates			
DVP series	1-phase	100~240 VAC	DC24V	24W	DVPPS01				
				48W	DVPPS02				
				120W	DVPPS05				
DRP series	1-phase	85~264VAC (120~375VDC)	DC12V	15W	DRP012V015W1AZ				
				30W	DRP012V030W1AZ				
				60W	DRP012V060W1AA				
				60W	DRP048V060W1BA*				
				100W	DRP012V100W1AA				
				DC24V	60W		DRP024V060W1AZ		
					60W		DRP024V060W1AA		
					60W		DRP024V060W1BA*		
					120W		DRP024V120W1AA		
	120W	DRP024V120W1BA*							
	240W	DRP024V240W1AA							
	240W	DRP024V240W1BA*							
	480W	DRP024V480W1AA							
	DC48V	60W	DRP048V060W1BA						
	3-phase	320~575VAC (450~800VDC)	DC24V	60W	DRP024V060W3AA				
				120W	DRP024V120W3AA				
				240W	DRP024V240W3AA				
				480W	DRP024V480W3AA				
1-phase				85~264VAC (120~375VDC)	DC5V		15W	PMC-05V015W1AA	
							35W	PMC-05V035W1AA	
	50W	PMC-05V050W1AA							
	DC12V	35W	PMC-12V035W1AA						
		50W	PMC-12V050W1AA						
		100W	PMC-12V100W1AA						
	DC24V	150W	PMC-12V150W1AA						
		35W	PMC-24V035W1AA						
		50W	PMC-24V050W1AA						
		75W	PMC-24V075W1AA						
		100W	PMC-24V100W1AA						
		150W	PMC-24V150W1AA						
DC5V	85~264VAC (120~375VDC)	DC24V	150W	PMC-24V150W2AA					
			300W	PMC-24V300W1BA					
			DC5V	100W		PMC-DSPV100W1A (dual output)			
				DC24V		100W	PMC-DSPV100W1A (dual output)		

* [Note] BA series : Removable Terminal Block