

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



Automation for a Changing World

Delta Programmable Logic Controller DVP series



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www.delta.com.tw/ia



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. 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.

Motion Control Type	PM  <ul style="list-style-type: none"> 64k program capacity Motion trajectory built up by software 500kHz differential output Linear/arc/helical interpolation Electronic cam (2,048 points) 		MC  <ul style="list-style-type: none"> 1MByte Motion program capacity Fast set-up Easy wiring 1Mbps communication speed Linear/arc/helical interpolation Electronic cam (2,048 points) Supports CANopen DS402 protocol 	
	High-grade Network Type	SA2  <ul style="list-style-type: none"> 16k program capacity Built-in 3 COM ports 100kHz pulse output Speed of basic instruction: 0.35µs Max. 480 I/O points Supports multiple industrial networks 	SX2  <ul style="list-style-type: none"> 16k program capacity Built-in 3 COM ports (USB) 100kHz pulse output Supports multiple industrial networks Built-in analog I/O of 12-bit resolution 	SE  <ul style="list-style-type: none"> 16k program capacity Built-in 3 COM ports (USB) 100kHz pulse output Supports multiple industrial networks Max. 480 I/O points
Standard Type		EC3  <ul style="list-style-type: none"> 4k program capacity Cost-effective model I/O sequential control 	ES2  <ul style="list-style-type: none"> 16k program capacity 100kHz pulse output 	EX2  <ul style="list-style-type: none"> Built-in 3 COM ports Protected by 4 sets of passwords Built-in analog I/O of 12-bit resolution

DVP-PLC --- Offering the highest cost-effectiveness among controllers of the same level



Contents

	Page
DVP-E Series PLC	3
DVP-S Series PLC	5
DVP-PM/MC Series PLC	9
Industrial Automation Solutions	13
TP Series Text Panels	15
DVP Series Extension Modules	19
Electrical Specifications & Dimensions	24
ISPSOft Programming Software	27
Ordering Information	31



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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	
Sets	Bandwidth	Sets	Bandwidth	Sets	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

Inheriting the fast execution speed of ES2, DVP32ES2-C boosts the productivity by built-in 1Mbps CANopen interface specializes in noise-immunity and 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 / 1 analog output.
- ▶ 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	3	Points	1
Resolution	16-bit	Resolution	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 PLC 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

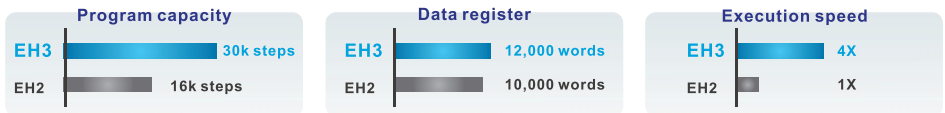
1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Sets	Bandwidth	Sets	Bandwidth	Sets	Bandwidth
2/2	20kHz/10kHz	1	20kHz	1	4kHz



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 (DVP40/48/64/80EH00T3)
- ▶ 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	
Sets	Bandwidth	Sets	Bandwidth	Sets	Bandwidth	Sets	Bandwidth
8	10kHz	4	200kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz

*The specifications in this table are applicable only for DVP40EH00R3/DVP40EH00T3. For input/output specifications of other models, refer to the I/O specifications table in page 20.

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

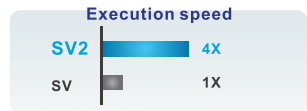
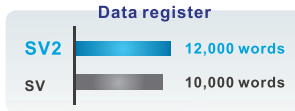
The brand-new extension modules greatly shorten the data transmission time among the PLC and its extension modules as well as enhance the efficiency of the PLC program.



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	
Sets	Bandwidth	Sets	Bandwidth	Sets	Bandwidth	Sets	Bandwidth
8	10kHz	4	200kHz	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 sets 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	
Sets	Bandwidth	Sets	Bandwidth	Sets	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	
Sets	Bandwidth	Sets	Bandwidth	Sets	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: 0.35 μ s, MOV: 3.4 μ s
- ▶ 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

- The most complete network 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: 0.64 μ s, MOV: 2 μ s
- ▶ 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
- ▶ 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 execution 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 sets of A/B phase pulse outputs
- ▶ 6 sets 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

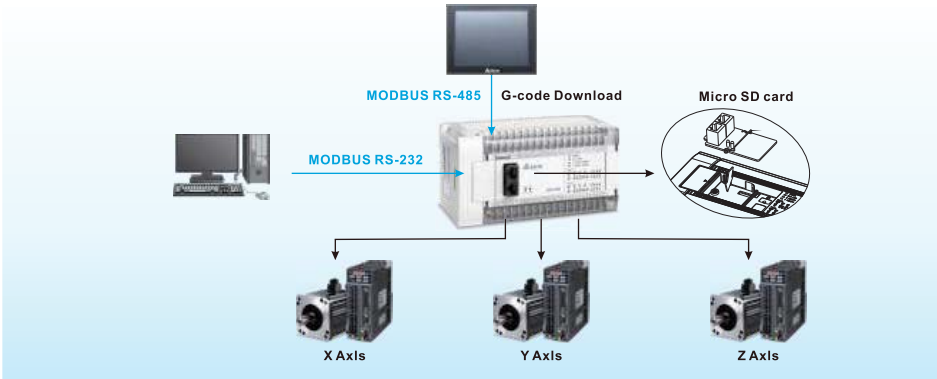
DVP20PM00D/M

- 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 sets (DVP20PM00D) / 3 sets (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



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	<ol style="list-style-type: none"> 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.

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 sets of high-speed pulse inputs for interrupt function and 4 sets 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 axes in 2ms and 8 axes in 4ms
- ▶ Compatible with G-Code
- ▶ Supports international standard function blocks for motion control, enhancing program editing efficiency

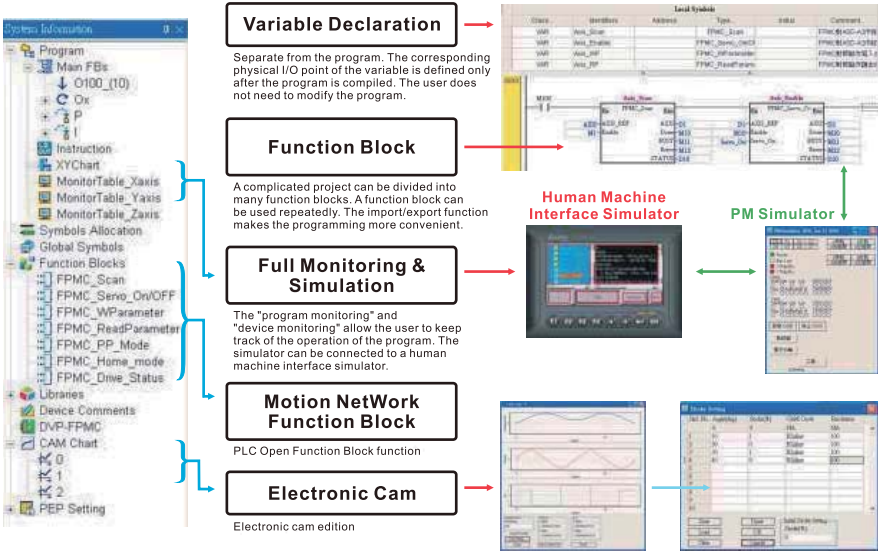


CANopen Accessories

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

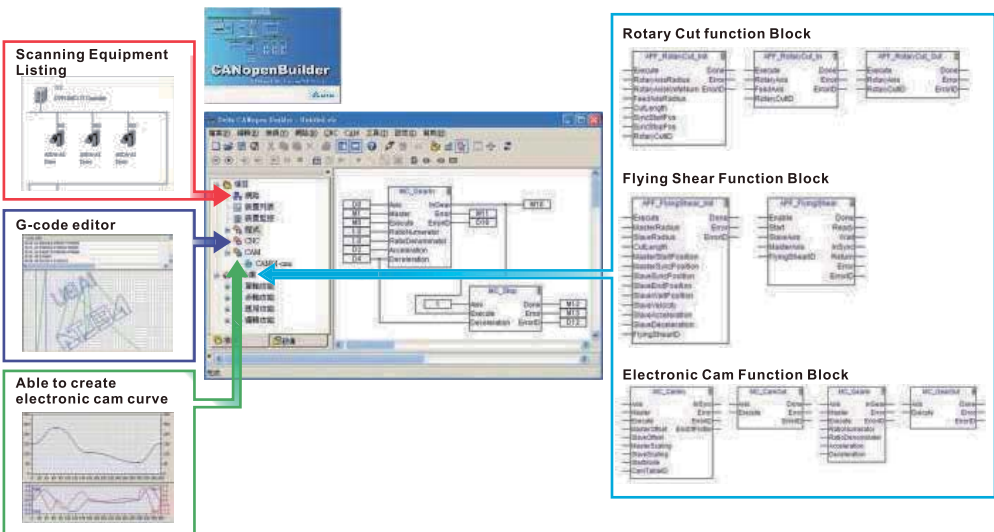
PMSoft

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



CANopen Builder

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



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.



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.



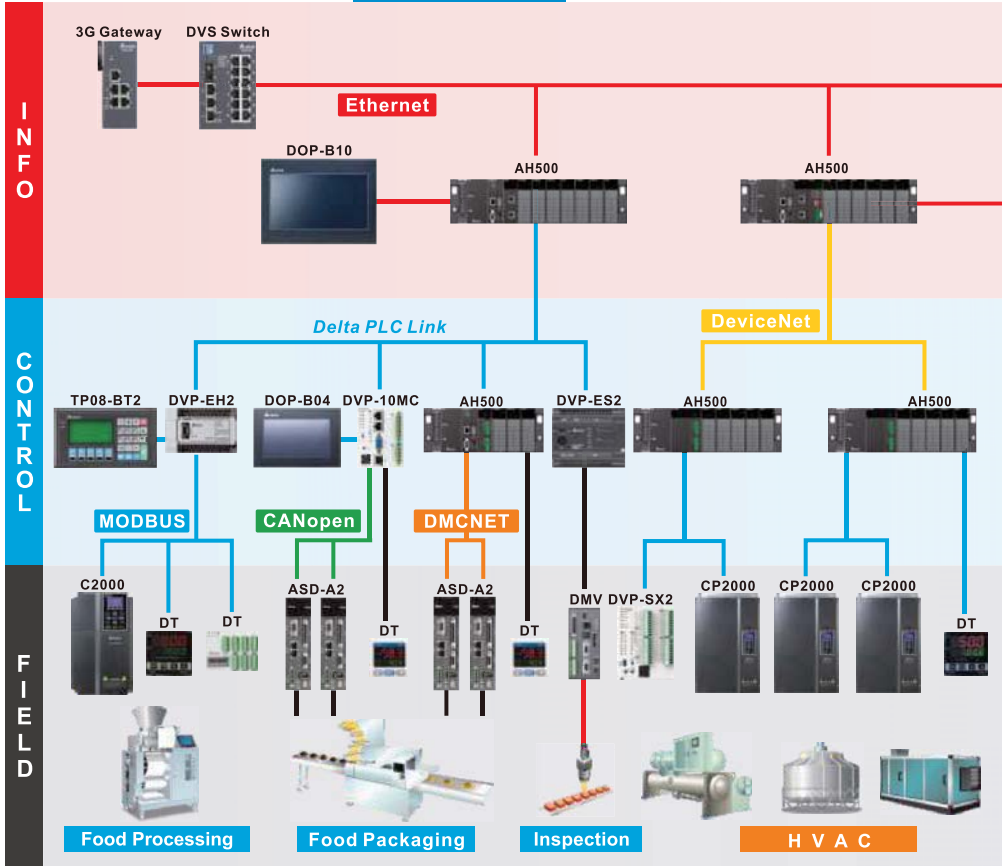
CNC Lathe

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

Factory Automation



Ethernet

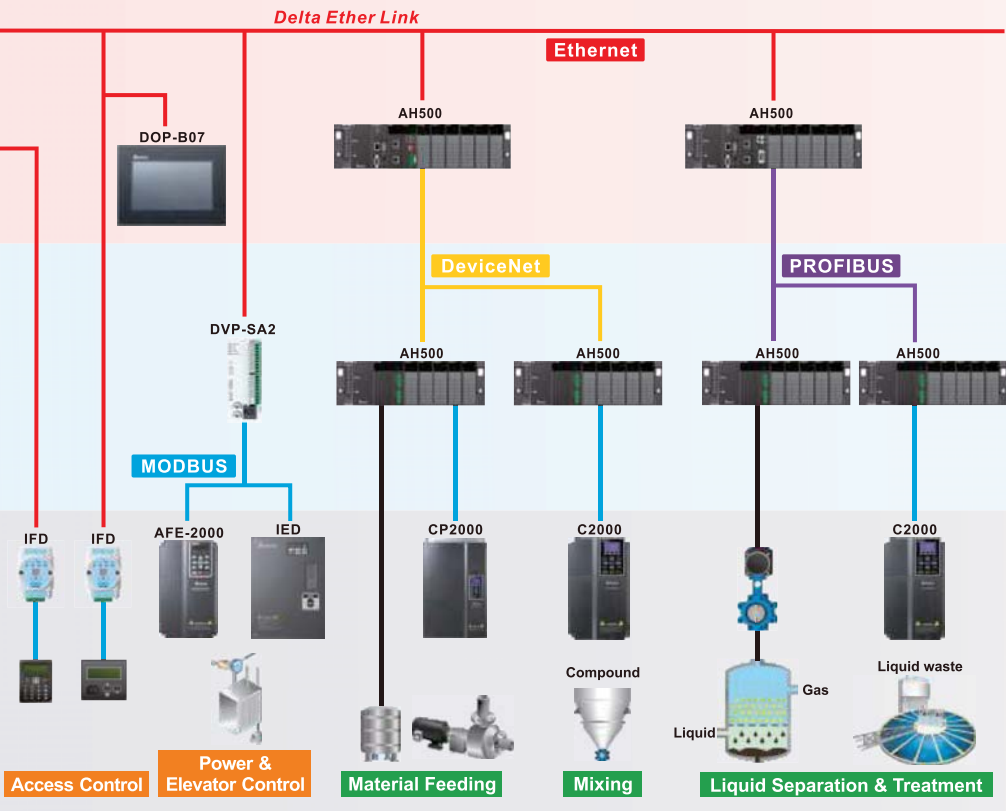
Delta Ethernet products transcend the limits of transmission distance, offering 10/100Mbps high-speed transmission and efficient remote monitoring.

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)







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

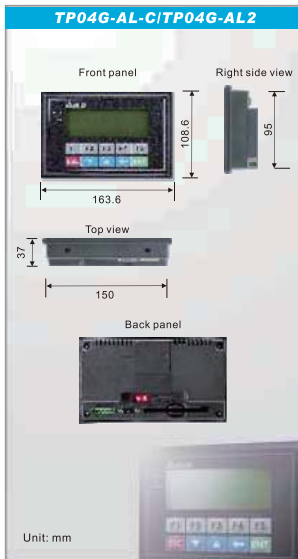
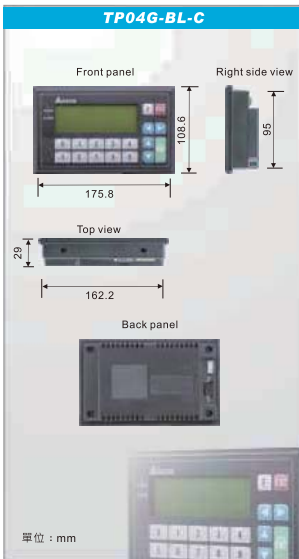
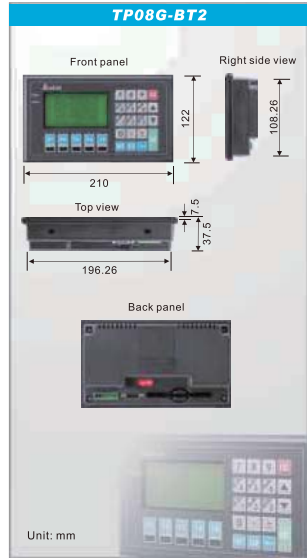
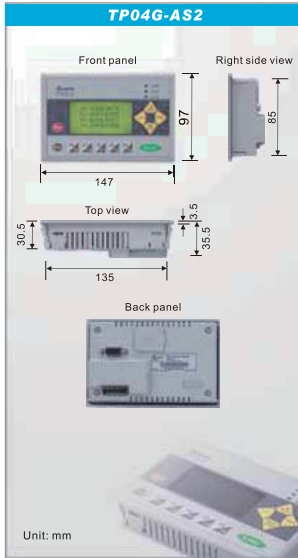
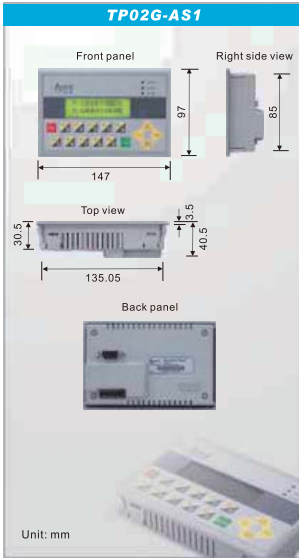
Dimensions	4.1" (101.8 x 35.24mm)
Resolution	192 x 64
Display color	Monochrome
Flash Memory	256k bytes
SRAM	10k bytes
Function keys	17 function keys
Password	Available
Recipe function	Not available
Real-time clock	Available
Serial COM port	RS-232
Editing software	TPEditor

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							
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) × Height (H) × 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		163 x 96
Weight	240g		430g		268g	270g	292g
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 Highest 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
DVP-F232



- DVP-F422



- Add additional 3rd COM port
DVP-F485*



- For Ethernet Communication
DVP-FEN01



- For CANopen Communication
DVP-FCOPM*



- Analog I/O
DVP-F2AD
DVP-F2DA



*Contact your sales representative for the official launch date.

Accessories

- Data Backup Card
DVP-512FM
(for special purpose)



- DVPPCC01
(for general purpose)



- Data Transmission Cable
DVPACAB2A30



- Digital Display Panel
DVPDU01



Model name	Specifications (Spec.)
DVP16EH00R3	—AC— 2 sets of 200kHz pulse input
DVP16EH00T3	—AC— 2 sets of 200kHz pulse output, 2 sets of 200kHz pulse input
DVP20EH00R3	—AC— 2 sets of 200kHz pulse input
DVP20EH00T3	—AC— 2 sets of 200kHz pulse output, 2 sets of 200kHz pulse input
DVP32EH00R3	—AC— 4 sets of 200kHz pulse input
DVP32EH00T3	—AC— 2 sets of 200kHz pulse output, 4 sets of 200kHz pulse input
DVP32EH00M3	—AC— 2 sets of 200kHz pulse output, 4 sets of 200kHz pulse input
DVP32EH00R3-L*	—AC— 4 sets of 200kHz pulse input
DVP32EH00T3-L*	—AC— 2 sets of 200kHz pulse output, 4 sets of 200kHz pulse input
DVP40EH00R3	—AC— 4 sets of 200kHz pulse input
DVP40EH00T3	—AC— 4 sets of 200kHz pulse input/output
DVP48EH00R3	—AC— 4 sets of 200kHz pulse input
DVP48EH00T3	—AC— 4 sets of 200kHz pulse input/output
DVP64EH00R3	—AC— 4 sets of 200kHz pulse input
DVP64EH00T3	—AC— 4 sets of 200kHz pulse input/output
DVP80EH00R3	—AC— 4 sets of 200kHz pulse input
DVP80EH00T3	—AC— 4 sets of 200kHz pulse input/output

—AC— :AC power supply :Inputs :Outputs :Relay output :Transistor output :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

DVP04TC-H2
DVP08TC-H2



DVP32EH00R3-L & DVP32EH00T3-L are also compatible with left-side high-speed extension modules for DVP-SV2 series*.

Motion Control

Single-Axis Positioning

DVP01PU-H2



High-Speed Counter

DVP01HC-H2



*For left-side high-speed extension modules, refer to page 23.

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 8 ↑ (R) →
DVP16ES200T	⊖ ⊖ 8 8 ↑ (T) →
DVP24ES200R	⊖ ⊖ 16 8 ↑ (R) →
DVP24ES200T	⊖ ⊖ 16 8 ↑ (T) →
DVP32ES200R	⊖ ⊖ 16 16 ↑ (R) →
DVP32ES200T	⊖ ⊖ 16 16 ↑ (T) →
DVP32ES211T	⊖ ⊖ 16 16 ↑ (T) →
DVP32ES200RC	⊖ ⊖ 16 16 ↑ (T) →
DVP32ES200TC	⊖ ⊖ 16 16 ↑ (T) →
DVP40ES200R	⊖ ⊖ 24 16 ↑ (R) →
DVP40ES200T	⊖ ⊖ 24 16 ↑ (T) →
DVP60ES200R	⊖ ⊖ 36 24 ↑ (R) →
DVP60ES200T	⊖ ⊖ 36 24 ↑ (T) →

- ⊖ ⊖ : AC power supply ↶ : Inputs ↑ : Outputs
- ⊖ ⊖ : DC power supply (T) → : Transistor output
- (R) → : Relay output

Model name	Spec.
DVP20EX200R	⊖ ⊖ 6 6 ↑ 4AI/2AO (R) →
DVP20EX200T	⊖ ⊖ 6 6 ↑ 4AI/2AO (T) →
DVP30EX200R	⊖ ⊖ 16 10 ↑ 3AI/1AO (R) →
DVP30EX200T	⊖ ⊖ 16 10 ↑ 3AI/1AO (T) →

- ⊖ ⊖ : AC power supply ↶ : Inputs ↑ : Outputs
- ⊖ ⊖ : DC power supply (T) → : Transistor output
- (R) → : 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 PLC

Model name	Spec.
DVP14SS211R	—DC— 8 6 (R)→
DVP14SS211T	—DC— 8 6 (T)→

Ⓜ→:Relay output C→:Inputs U→:Outputs
 —DC—:DC power supply T→:Transistor output



DVP-SX2

2nd-Generation Slim Analog I/O PLC

Model name	Spec.
DVP20SX211R	—DC— 8 6 (R)→
DVP20SX211T	—DC— 8 6 (T)→
DVP20SX211S	—DC— 8 6 (S)→

Ⓜ→:Relay output C→:Inputs U→:Outputs
 —DC—:DC power supply T→:Transistor output
 Ⓜ→:Transistor output (PNP)

DVP-SA2

2nd-Generation Slim Advanced PLC

Model name	Spec.
DVP12SA211R	—DC— 8 4 (R)→
DVP12SA211T	—DC— 8 4 (T)→

Ⓜ→:Relay output C→:Inputs U→:Outputs
 —DC—:DC power supply T→:Transistor output



DVP-SV2

Functional Slim Type PLC

Model name	Spec.
DVP28SV11R2	—DC— 16 12 (R)→
DVP28SV11T2	—DC— 16 12 (T)→

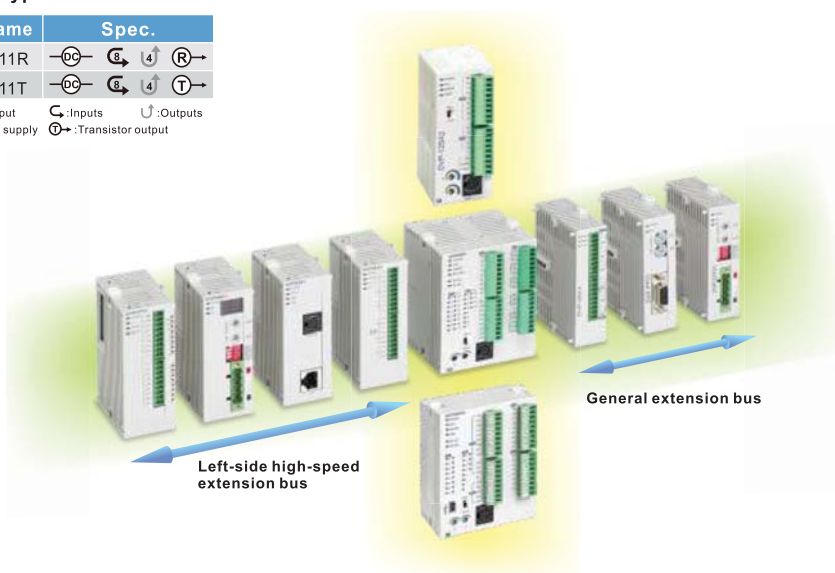
Ⓜ→:Relay output C→:Inputs U→:Outputs
 —DC—:DC power supply T→:Transistor output

DVP-SE

Network Type Advanced Slim PLC

Model name	Spec.
DVP12SE11R	—DC— 8 4 (R)→
DVP12SE11T	—DC— 8 4 (T)→

Ⓜ→:Relay output C→:Inputs U→:Outputs
 —DC—:DC power supply T→:Transistor output



Extension Modules

Left-Side High-Speed Extension Modules

Network Modules

- DeviceNet Master
DVPDNET-SL
- CANopen Master
DVPCOPM-SL



- Ethernet
DVPEN01-SL
- PROFIBUS-DP Slave
DVPPF02-SL



- RS-485/RS-422
Serial Communication
Module
DVPSM12-SL



- BACnet MS/TP Slave
Serial Communication
Module
DVPSM52-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



*1. Contact your sales representative for the official launch date of the left-side high-speed extension modules.
2. DVP32EH00R3-L & DVP32EH00T3-L are also compatible with the left-side high-speed extension modules.

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 Specifications*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	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			
OFF→ON: 20μs ON→OFF: 50μs				

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

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

Output Specifications*1

	Transistor-T	Relay-R		
		General speed	High speed	
Max. exchange (working) frequency	1Hz*2	10kHz	100kHz	200kHz
Current spec.	EH2/EH3/SV/PM	0.3A/point@40°C	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)
	ES2/EX2			
	ES/EX			
	SS/SA/SX/SC			
	1.5A		SC <1kHz, 0.3A/point@40°C ≥1kHz, 30mA/point@40°C	
Voltage spec.	250VAC/30VDC		30VDC	
Response time	10ms	OFF→ON: 20μs ON→OFF: 30μs	OFF→ON: 2μs ON→OFF: 3μs	OFF→ON: 0.5μs ON→OFF: 2.5μs

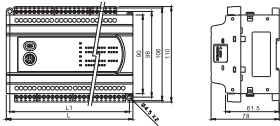
*1. For more detailed specifications, see "Specification" section in the instruction sheet of each model.

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

Dimensions

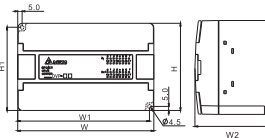
ES2/EX2 Series PLC

Model name (mm)	L	L1
DVP16ES200R/T	105	97
DVP24ES200R/T	125	117
DVP32ES200R/T	145	137
DVP32ES200RC	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 PLC

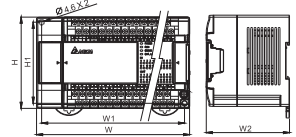
Model name (mm)	H	H1	W	W1	W2
DVP14ES00R2/T2	100	95	104	99	82
DVP24ES00(11)R2/T2	100	95	155	150	82
DVP30ES00R2/T2	100	95	155	150	82
DVP32ES00R2/T2	100	95	155	150	82
DVP40ES00R2/T2	100	95	155	150	82
DVP60ES00R2/T2	100	85.5	185	180.5	89.6
DVP20EX00(11)R2/T2	100	95	155	150	82



EH3 Series PLC

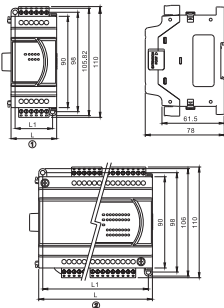
Model name (mm)	H	H1	W	W1	W2
DVP16EH00R3/T3	90	80	113	103	82
DVP20EH00R3/T3	90	80	113	103	82
DVP32EH00M3	90	80	143.5	133.5	82
DVP32EH00R3/T3	90	80	143.5	133.5	82
DVP32EH00R3-L	90	80	143.5	133.5	82
DVP32EH00T3-L	90	80	143.5	133.5	82
DVP40EH00R3/T3	90	80	158.8	153.8	82
DVP48EH00R3/T3	90	80	174	164	82
DVP64EH00R3/T3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



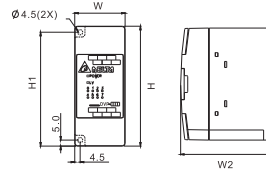
ES2/EX2 Series Extension Modules

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	○



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

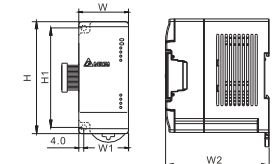


EH3 Series Extension Modules

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



PM Series PLC

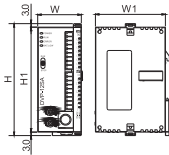
Model name (mm)	H	H1	W	W1	W2
DVP20PM00D	90	80	174	164	82
DVP20PM00M	90	80	174	164	82

MC Series PLC

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

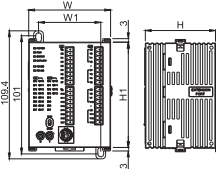
SS/SA/SE/SX/SC/SS2/SA2 Series PLC

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



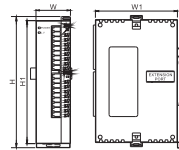
SV/SV2/SX2 Series PLC

Model name (mm)	H	H1	W	W1
DVP28SV11R/T	60	90	70	53.2
DVP28SV11R2/T2	60	90	70	53.2
DVP20SX211R/T/S	60	90	70	53.2



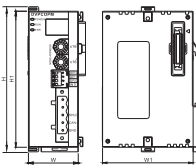
S Series Extension Modules

Model name (mm)	H	H1	W	W1
DVP08SM11N	96	90	25.2	60
DVP06SN11R	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



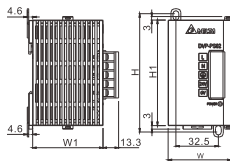
Left-Side High-Speed Extension Modules

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
DVPPF02-SL	96	90	33.1	60
DVPSCM12-SL	96	90	33.1	60
DVPSCM52-SL	96	90	33.1	60
DVP04AD-SL	96	90	33.1	60
DVP04DA-SL	96 <td 90	33.1	60	
DVP02LC-SL	96	90	33.1	60



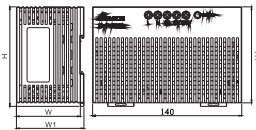
PS01/02 Power Supply Modules

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



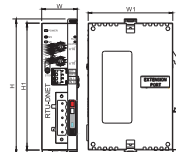
PS05 Power Supply Modules

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

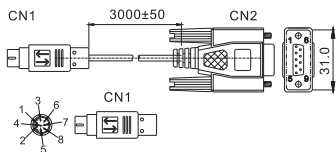


Remote I/O Modules

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



PIN Definition of DVPACAB2A30



PC/HMI COM Port		PLC COM1 Port	
9 PIN D-SUB female		8 PIN MINI DIN	
Tx	3	Rx	4
Rx	2	Tx	5
GND	5	GND	8
		1.2	5V

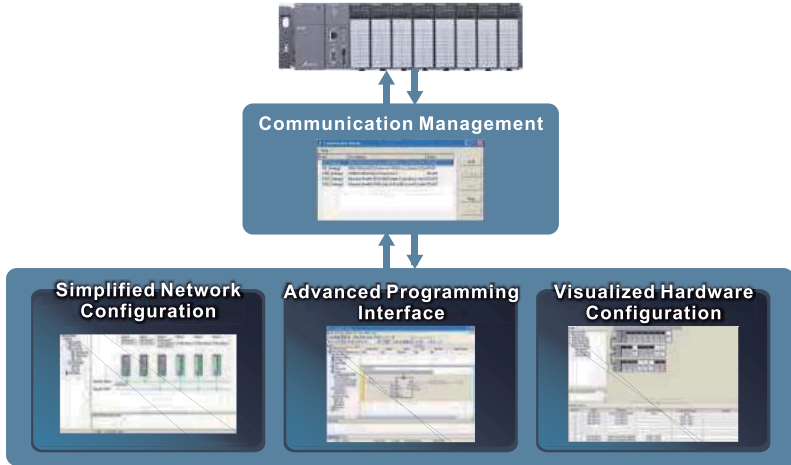
Unit: mm

ISPSoft V2.0

Highly Accessible Programming Software

Fully Integrated Interface:

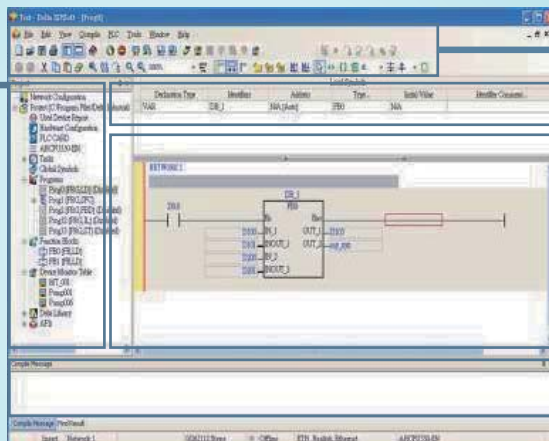
Advanced Programming Interface + Visualized Hardware Configuration + Simplified Network Configuration



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

*For DVP-series PLC, up to 4 languages (IL/LD/SFC/ST) are supported according to the product version.

Visualized Hardware Configuration

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

Slot	Module	Module No.	Module Name	Scan Device Range	Output Device Range	Comments
1	AP000-01	AP000-01	AP000-01	000 - 000	000 - 000	
2	AP000-02	AP000-02	AP000-02	000 - 000	000 - 000	
3	AP000-03	AP000-03	AP000-03	000 - 000	000 - 000	
4	AP000-04	AP000-04	AP000-04	000 - 000	000 - 000	
5	AP000-05	AP000-05	AP000-05	000 - 000	000 - 000	
6	AP000-06	AP000-06	AP000-06	000 - 000	000 - 000	
7	AP000-07	AP000-07	AP000-07	000 - 000	000 - 000	
8	AP000-08	AP000-08	AP000-08	000 - 000	000 - 000	
9	AP000-09	AP000-09	AP000-09	000 - 000	000 - 000	
10	AP000-10	AP000-10	AP000-10	000 - 000	000 - 000	
11	AP000-11	AP000-11	AP000-11	000 - 000	000 - 000	
12	AP000-12	AP000-12	AP000-12	000 - 000	000 - 000	
13	AP000-13	AP000-13	AP000-13	000 - 000	000 - 000	
14	AP000-14	AP000-14	AP000-14	000 - 000	000 - 000	
15	AP000-15	AP000-15	AP000-15	000 - 000	000 - 000	
16	AP000-16	AP000-16	AP000-16	000 - 000	000 - 000	
17	AP000-17	AP000-17	AP000-17	000 - 000	000 - 000	
18	AP000-18	AP000-18	AP000-18	000 - 000	000 - 000	
19	AP000-19	AP000-19	AP000-19	000 - 000	000 - 000	
20	AP000-20	AP000-20	AP000-20	000 - 000	000 - 000	

Simplified Network Configuration

Station 11 (192.168.1.11)
Station 12 (192.168.1.12)
Station 13 (192.168.1.13)

Ethernet

RS-485

Station 21 **Station 22** **Station 23**

FMCS

Network Device Selection

Ether Link

PLC Link

Toolbar

Network Configuration Area

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

Network Information

Model Name Explanation

PLC

DVP ○ ○ □ □ ○ ○ □ □

Series ① ② ③ ④ ⑤

- Total I/O
- Model
 - ES/ES2 : ES/ES2 series PLC
 - EX/EX2 : EX/EX2 series PLC
 - SS/SS2 : SS/SS2 series PLC
 - SA/SA2 : SA/SA2 series PLC
 - SX/SX2 : SX/SX2 series PLC
 - SC : SC series PLC
 - SV : SV series PLC
 - PM : PM series PLC
 - EH : EH series PLC
- Power supply
 - 00 : AC power input
 - 11 : DC power input
- Output type
 - R : Relay
 - T : Transistor (NPN)
 - M : Mixed with differential signal
 - S : Transistor (PNP)
- Version

DI/DO Module

DVP ○ ○ □ □ ○ ○ □ □

Series ① ② ③ ④ ⑤

- Total I/O
- Model
 - X : For ES/EX/ES2/EX2 series PLC
 - S : For SS/SA/SX series PLC
 - For SS2/SA2/SX2 series PLC
 - For SC/SE/SV/SV2 series PLC
 - H : For EH/EH2/EH3/PM series PLC
- I/O type
 - M : Input point
 - N : Output point
 - P : Input + output
- Power supply
 - 00 : AC power input
 - 11 : DC power input
- Output type
 - R : Relay
 - T : Transistor (NPN)
 - TS : Transistor (PNP)

AI/AO Module

DVP ○ ○ □ □ - □ □ □

Series ① ② ③

- Total I/O
- Model
 - AD : Analog/digital conversion
 - DA : Digital/analog conversion
 - PT : PT100 type temperature module
 - TC : Thermocouple type temperature Module
 - XA : AD + DA module
- Model
 - S : For SS/SA/SX series PLC
 - For SS2/SA2/SX2 series PLC
 - For SC/SE/SV/SV2 series PLC
 - H : For EH/EH2/EH3/PM series PLC
 - H2 : For EH2 series PLC
 - H3 : For EH3 series PLC
 - SL : For PLC with left-side interface
 - E : For ES/EX series PLC
 - E2 : For ES2/EX2 series PLC

PI/PO Module

DVP ○ ○ □ □ - □ □ □

Series ① ② ③

- Total I/O
- Model
 - HC : High-speed counter
 - PU : Single-axis positioning module
- Model
 - H : For EH/EH2/EH3/PM series PLC
 - S : For SS/SA/SX series PLC
 - For SS2/SA2/SX2 series PLC
 - For SC/SE/SV/SV2 series PLC
 - SL: left-side extension for SV series PLC

Peripherals

DVP □ □ □ □ ○ ○

Series ① ②

- Product name
 - HPP : Handheld programming panel
 - DU : Digital display panel
- Type/function
 - 01 : Type 01
 - 02 : Type 02
 - 03 : Type 03

Network Module

DVP □ □ □ □ □ □

Series ① ②

- Model
 - EN01 : MODBUS TCP
 - DNET : DeviceNet master
 - COPM : CANopen master
 - CP02 : CANopen master
 - DT01/02 : DeviceNet master
 - PF01/02 : PROFIBUS DP master
- Model
 - SL : left-side extension for SV series PLC
 - H2 : For EH2 series PLC
 - H3 : For EH3 series PLC
 - S : For Slim series PLC

Accessory: Cable

DVP A CAB ○ ○ ○ ○

Series ① ② ③ ④

- Accessory
- Type
 - CAB : Cable
- Type
 - 1, 2, 3, 4,
- Length
 - 15 : 1.5m
 - 30 : 3.0m

Remote I/O

RTU □ □ ○ ○

Series ①

- Model
 - DNET : DeviceNet
 - 485 : RS-485
 - EN01 : MODBUS TCP

Function Card

DVP - F ○ ○ ○ □ □ □

Series ① ② ③

- Function Card
- Type
 - 232 : RS-232 card
 - 422 : RS-422 card
 - 2OT : 2DO card, transistor output...
- Particular definition
 - S : Slave mode
 - (applicable to COM3 coding only)

Accessory: Other

DVP A BT ○ ○

① ② ③

- Accessory
 - Bt : Battery
- Type
 - 01, 02

Select A Suitable PLC

Select your desired specifications and locate the most suitable PLC.

What do you need?

Select specifications

Check

Locate PLC

Item	Specifications	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	△*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"/>	○	○	○		○	○	○	○
	200kHz high speed	<input type="checkbox"/>			○	△	△	△	○	○
High-speed counting	< 2 channels	<input type="checkbox"/>	○	○		○	○	○		○
	> 3 channels	<input type="checkbox"/>			○*3	△	△	△	○	
	200kHz high speed	<input type="checkbox"/>			○	△	△	△	○	
Analog function	< 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 EH3 series support only slave. SV2/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, EH3 series can be connected to high-speed counter modules.





Ordering Information



ES/EX Series PLC

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
ES series standard PLC	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 PLC	100~240VAC	Relay	8	6	DVP20EX00R2	
		Analog	4	2		
	100~240VAC	Transistor	8	6	DVP20EX00T2	
		Analog	4	2		
	24VDC	Relay	8	6	DVP20EX11R2	
		Analog	4	2		

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 PLC



Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
EC3 series standard PLC	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 PLC

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
ES2 series standard PLC	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		
ES2 series built-in CANopen PLC	100~240VAC	Relay	36	24	DVP32ES200RC	
	100~240VAC	Transistor	36	24	DVP32ES200TC	
EX2 series analog PLC	100~240VAC	Relay	8	6	DVP20EX200R	
		Analog	4	2		
	100~240VAC	Transistor	8	6	DVP20EX200T	
		Analog	4	2		
EX2 series temperature/analog PLC	100~240VAC	Relay	16	10	DVP30EX200R	
		Analog	3	1		
	100~240VAC	Transistor	16	10	DVP30EX200T	
		Analog	3	1		
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	
Transistor	8	8	DVP16XP211T		
ES2/EX2 series analog I/O module	<ul style="list-style-type: none"> ■ 4 points of analog voltage (10V, 5V) / current (20mA, 0~20mA, 4~20mA) input *1 ■ Resolution:14-bit (-32,000~+32,000) 			DVP04AD-E2	
	<ul style="list-style-type: none"> ■ 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	
	<ul style="list-style-type: none"> ■ 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	
	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 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	
	<ul style="list-style-type: none"> ■ 4 points of thermocouple (J, K, R, S, T, E, N Type) sensor input / -80mV~+80mVvoltage input *1 ■ Resolution: 20-bit ■ With PID temperature control 			DVP04TC-E2	

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

EH2/EH3 Series PLC



Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
EH2/EH3 series standard PLC	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	
	Relay	24	24	DVP48HP00R	
Transistor	24	24	DVP48HP00T		
Analog module	<ul style="list-style-type: none"> ■ 4 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) *1 ■ Input resolution: 14-bit ■ Built-in RS-485 interface 			DVP04AD-H2	 
	<ul style="list-style-type: none"> ■ 4 points of analog voltage (0V~+10V)/current (0mA~+20mA) output *1 ■ Resolution: 12-bit ■ Built-in RS-485 interface 			DVP04DA-H2	
	<ul style="list-style-type: none"> ■ 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	
	<ul style="list-style-type: none"> ■ 4 points of platinum RTD (PT100) sensor input *1 ■ Resolution: 0.1 °C ■ Built-in RS-485 interface 			DVP04PT-H2	
	<ul style="list-style-type: none"> ■ 4 points of thermocouple (J, K, R, S, T type) sensor input *1 ■ Resolution: 0.1 °C ■ Built-in RS-485 interface 			DVP04TC-H2	
	<ul style="list-style-type: none"> ■ 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	Description	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)	DVP-F232S	
	RS-485 port extension (COM3)	DVP-F485S	
	RS-485 port extension (COM3), (DVP-EH3 only)	DVP-F485	
	<ul style="list-style-type: none"> ■ 2 points of analog voltage (0~10V)/current (0~20mA) input ■ Resolution: 12-bit 		DVP-F2AD
<ul style="list-style-type: none"> ■ 2 points of analog voltage (0~10V)/current (0~20mA) output ■ Resolution: 12-bit 		DVP-F2DA	
Digital display panel	Ethernet communication card	DVP-FEN01	
	Displays data in register and real-time clock.	DVPDU01	

Ordering Information



S Series PLC

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
SV2 series functional PLC	24VDC	Relay	16	12	DVP28SV11R2	
	24VDC	Transistor	16	12	DVP28SV11T2	
SV series functional PLC	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 PLC	24VDC	Relay	8	6	DVP14SS211R	
SA2 series advanced PLC	24VDC	Transistor	8	6	DVP14SS211T	
	24VDC	Relay	8	4	DVP12SA211R	
SE series network PLC	24VDC	Transistor	8	4	DVP12SA211T	
	24VDC	Relay	8	4	DVP12SE11R	
SX2 series analog PLC	24VDC	Transistor	8	4	DVP12SE11T	
	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 PLC	24VDC	Relay	8	6	DVP14SS11R2	
	24VDC	Transistor	8	6	DVP14SS11T2	
SA series advanced PLC	24VDC	Relay	8	4	DVP12SA11R	
	24VDC	Transistor	8	4	DVP12SA11T	
SX series analog PLC	24VDC	Relay	4 (2AI)	2 (2AO)	DVP10SX11R	
	24VDC	Transistor	4 (2AI)	2 (2AO)	DVP10SX11T	
SC series positioning PLC	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, latch connector	-	32	DVP32SN11TN	
latch connector	-	32	DVP32SM11N		
Analog I/O module	<ul style="list-style-type: none"> 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) *1 Input resolution: 14-bit Built-in RS-485 interface 	-	-	DVP04AD-S	
	<ul style="list-style-type: none"> 4 points of analog input voltage (0V~+10V)/current (0mA~+20mA) *1 Resolution: 12-bit Built-in RS-485 interface 	-	-	DVP04DA-S	
	<ul style="list-style-type: none"> 2 points of analog input voltage (0V~+10V)/current (0mA~+20mA) *1 Resolution: 12-bit Built-in RS-485 interface 	-	-	DVP02DA-S	
	<ul style="list-style-type: none"> 8 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) *1 Input resolution: 14-bit Built-in RS-485 interface 	-	-	DVP06AD-S	
	<ul style="list-style-type: none"> 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	Description	Model name	Certificates
Left-side high-speed analog I/O module	<ul style="list-style-type: none"> ■ 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	 
	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 4 points of platinum RTD (PT100) sensor input *1 ■ Resolution: 0.1°C ■ Built-in RS-485 interface 	DVP04PT-S	
	<ul style="list-style-type: none"> ■ 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	DVPNET-SL	
	CANopen master communication module, 1Mbps	DVPCOPM-SL	
	PROFIBUS DP slave communication module, 12Mbps	DVPPF02-SL	
	RS-485/RS-422, serial communication module, 460kbps	DVPSCM12-SL	
	BACnet MS/TP Slave communication module, 460kbps	DVPSCM52-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
General Purpose Motion Controller	100~240VAC	Differential	16	16	DVP10PM00M	
		(Built-in 2-axis of independent 500kHz pulse output)				
Professional Motion Controller	100~240VAC	Differential	8	8	DVP20PM00D	
		(Built-in 2-axis of independent 500kHz pulse output)			DVP20PM00M	
		(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	24VDC	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	
	Resolution: 192 x 64 dots, Serial COM ports: RS-232, 0~9 numeric keys available	TP04G-BL-C	
TP08	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 PLC 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 PLC	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		
				60W	DRP024V060W1AZ		
	1-phase	85~264VAC (120~375VDC)	DC24V	60W	DRP024V060W1AA		
				60W	DRP024V060W1BA*		
				60W	DRP024V060W1BA*		
				120W	DRP024V120W1AA		
				120W	DRP024V120W1BA*		
				240W	DRP024V240W1AA		
	3-phase	320~575VAC (450~800VDC)	DC24V	240W	DRP024V240W1AA		
				240W	DRP024V240W1BA*		
				480W	DRP024V480W1AA		
PMC series	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	150W	PMC-24V150W2AA		
				DC24V	300W		PMC-24V300W1BA
					100W		PMC-DSPV100W1A (dual output)

* [Note] BA series : Removable Terminal Block



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