



#### IABU Headquarters

**Delta Electronics, Inc.**

Taoyuan1

31-1, Xingbang Road, Guishan Industrial Zone,  
Taoyuan County 33370, Taiwan, R.O.C.  
TEL: 886-3-362-6301 / FAX: 886-3-362-7267

#### Asia

**Delta Electronics (Jiang Su) Ltd.**

Wujiang Plant3

1688 Jiangxiang East Road,  
Wujiang Economy Development Zone,  
Wujiang City, Jiang Su Province,  
People's Republic of China (Post code: 215200)  
TEL: 86-512-6340-3008 / FAX: 86-512-6340-7290

**Delta Greentech (China) Co., Ltd.**

238 Min-Xia Road, Cao-Lu Industry Zone, Pudong, Shanghai,  
People's Republic of China  
Post code : 201209  
TEL: 021-58635678 / FAX: 021-58630003

**Delta Electronics (Japan), Inc.**

Tokyo Office

Delta Shibadaimon Building, 2-1-14  
Shibadaimon, Minato-Ku, Tokyo, 105-0012,  
Japan  
TEL: 81-3-5733-1111 / FAX: 81-3-5733-1211

**Delta Electronics (Korea), Inc.**

234-9, Duck Soo Building 7F, Nonhyun-Dong,  
Kangnam-Gu, Seoul, Korea 135-010  
TEL: 82-2-515-5305 / FAX: 82-2-515-5302

**Delta Electronics (Singapore) Pte. Ltd.**

8 Kaki Bukit Road 2, #04-18 Ruby Warehouse Complex,  
Singapore 417841  
TEL: 65-6747-5155 / FAX: 65-6744-9228

**Delta Electronics (India) Pvt. Ltd.**

Plot No. 43, Sector - 35, HSIDC,  
Gurgaon 122001, Haryana, India  
TEL: 91-124-416-9040 / FAX: 91-124-403-6045

#### America

**Delta Products Corporation (USA)**

Raleigh Office

P.O. Box 12173, 5101 Davis Drive,  
Research Triangle Park, NC 27709, U.S.A.  
TEL: 1-919-767-3813 / FAX: 1-919-767-3969

**Delta Greentech (Brasil) S/A**

Sao Paulo Office

Rua Itapeva, N° 26, 3º andar, Bela vista  
ZIP: 01332-000 - São Paulo - SP - Brasil  
TEL: 55-11-3568-3875 / FAX: 55-11-3568-3865

#### Europe

**Deltronics (The Netherlands) B.V.**

Eindhoven Office

De Witboot 15, 5652 AG Eindhoven, The Netherlands  
TEL: 31-40-2592850 / FAX: 31-40-2592851



# DVP

## DELTA Programmable Logic Controller

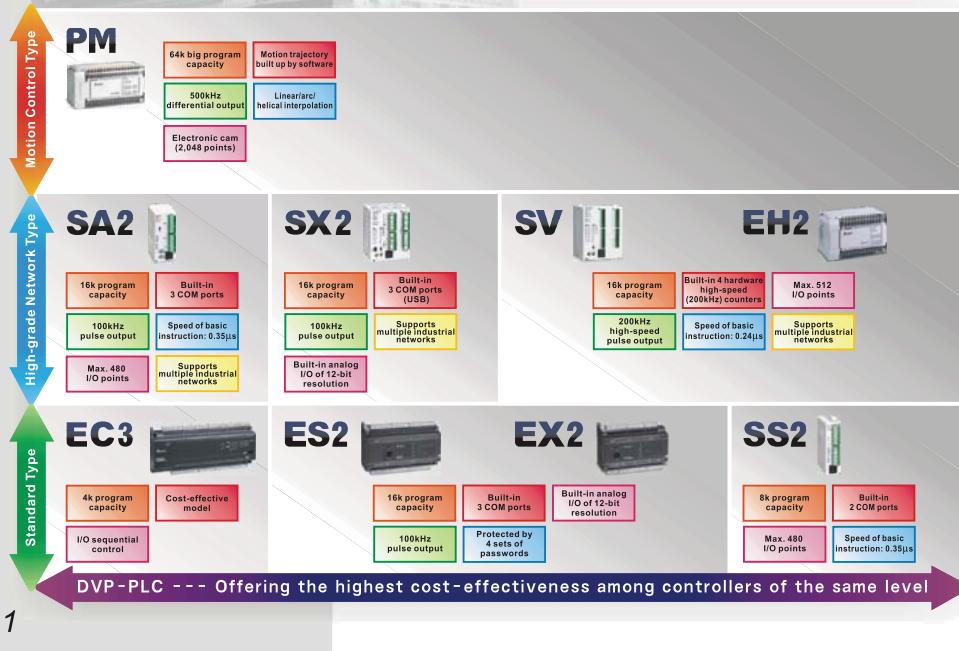


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# The Perfect Small PLC Revolution!

Delta's DVP series programmable logic controllers offer high-speed, stable and highly reliable applications in all kinds of industrial automation machines. In addition to fast logic operation, bountiful instructions and multiple function cards, the cost-effective DVP-PLC also supports various communication protocols, connecting Delta's AC motor drive, servo, human machine interface and temperature controller through the industrial network into a complete "Delta Solution" for all users.



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# The 2<sup>nd</sup>-Generation DVP Series PLC

The brand-new DVP-EH2, DVP-ES2, DVP-SS2, DVP-SA2 and DVP-SX2 are greatly upgraded in terms of functions and full program compatibility!

## DVP-ES2/EX2

### Second Generation Sequential Control / Integrated Analog I/O MPU



- MPU points: 16/20/24/32/40/60
- Max. I/O points: 256
- Program capacity : 16k steps
- Program execution speed : 0.54μs
- Built-in 1 RS-232 and 2 RS-485 ports, compatible with Modbus ASCII/RTU protocol. Can be master or slave.
- Data register: 10k words
- Built-in 8 points of high-speed input (100kHz\*2, 10kHz\*6), supporting U/D, U/D Dir, CW/CCW, A/B counting modes
- Built-in 4 points of pulse input (100kHz\*2, 10kHz\*2), supporting Pulse, Pulse Dir, A/B, CW/CCW modes

## DVP-SS2

### Second Generation Standard Slim MPU



- MPU points: 14
- Max. I/O points: 480
- Program capacity: 8k steps; Device D: 5k words, compatible with program of the existing DVP-SS series MPU
- Program execution speed: 0.35 to 1μs (basic instruction), 3.4μs (MOV)
- High-speed pulse output: 4 points of 10kHz pulse output
- Max. 8 points of high-speed input and external interruption input (200kHz\*4 points, 10kHz\*4 points)
- Built-in RS-232 and RS-485 ports, compatible with Modbus ASCII/RTU protocol. Can be master or slave.

## DVP-SA2

### Second Generation Advanced Slim MPU



- MPU points: 12 (8DI/4DO)
- Max. I/O points: 480 (left side extendable to high-speed modules)
- Program capacity: 16k steps; Device D: 10k words, compatible with program of the existing DVP-SA series MPU
- Program execution speed: 0.35 to 1μs (basic instruction), 3.4μs (MOV)
- High-speed pulse output: 4 points of pulse output (100kHz\*2, 10kHz\*2)
- 8 points of high-speed pulse input and external interruption input (100kHz\*3 points, 10kHz\*3 points, 1A/B phase input can reach 50kHz)
- Built-in 1 RS-232 and 2 RS-485 ports, compatible with Modbus ASCII/RTU protocol. Can be master or slave.

## DVP-EH2

### High Performance MPU



- MPU points: 16/20/32/40/48/64/80
- Max. I/O points: 512
- Program capacity: 16k steps
- Program execution speed: 0.24μs (basic instruction)
- Built-in RS-232 and RS-485 ports, compatible with Modbus ASCII/RTU protocol
- Data register: 10k words
- File register: 10k words
- High-speed pulse output: 20- and 32-point models support 2 points (Y0, Y2) of 200kHz pulse output; 40-point models support 4 points (Y0, Y2, Y4, Y6) of 200kHz pulse output.
- Supports max. 4 hardware 200kHz high-speed counters
- DVP32EH2-L model supports left-side high-speed module extension.

## DVP-SX2

### Second Generation Slim Analog I/O MPU



- MPU points: 20
- Max. I/O points: 480 (left side extendable to high-speed modules)
- Program capacity: 16k steps
- Device D: 10k words
- Compatible with program of the existing DVP-SX series PLC
- Program execution speed: 0.35 to 1μs (basic instruction), 3.4μs (MOV)
- Built-in 1 mini USB for program upload/download and monitoring
- 4 points of high-speed pulse output (100kHz\*2, 10kHz\*2)
- 8 points of high-speed pulse input and external interruption input (100kHz\*2, 10kHz\*6)
- Built-in RS-232 and RS-485 ports, compatible with Modbus ASCII/RTU protocol. Can be master or slave.

## DVP-PM

### Professional Motion Control MPU



DVP-PM series is the professional motion controller for 2-axis/3-axis synchronous motion. Able to achieve 500kHz differential output and compatible with G-code/M-code, DVP-PM can be defined as Delta's brand-new extendable multi-axis control system.

## DVP-SV

### Left-Side High-Speed Extendable MPU



DVP-SV series is applicable in diverse applications, e.g. I/O sequential control, 4-axis high-speed motion control and many industrial networks. It supports left-side extension and is connectable to max. 16 modules (plus general extension modules).

# DVP-E Series MPU



## DVP-ES2/EX2

- Built-in 4 channels of analog input & 2 channels of analog output (EX2 model)
- Integrated communication
- Analog MPU of the highest cost-effectiveness
- High reliability
- Max. 256 I/O points extendable
- Supports PLC-Link (max. speed: 921kbps)

### Specification & Performance

- MPU points: 16/20/24/32/40/60
- Max. I/O points: 272
- Program capacity: 16k steps
- COM port: Built-in 1 RS-232 & 2 RS-485 ports, compatible with Modbus ASCII/RTU protocol

### High-Speed Pulse Output

Supports 2 points (Y0, Y2) of 100kHz & 2 points (Y1, Y3) of 10kHz high-speed pulse output

### Built-in High-Speed Counters

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

\*Refers to the max. counting range of a single counter.

### Built-in Analog I/O in EX2 Model

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

For more detailed specifications, visit: <http://www.delta.com.tw/industrialautomation> for all user's manuals of DVP-PLC.

## DVP-EC3

- High reliability
- Most cost-effective solution to sequential control & communication monitoring for small PLC

### Specification & Performance

- MPU points: 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

### High-Speed Pulse Output

Supports 2 points (Y0, Y1) of independent high-speed (max. 1kHz) pulse output

### Built-in High-Speed Counters

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

\*Refers to the max. counting range of a single counter.

## DVP-EH2

- Outstanding operation performance
- Built-in large capacity for program & data storage
- Supports more than 203 application instructions

### Specification & Performance

- MPU points: 16/20/32/40/48/64/80
- Max. I/O points: 512
- Program capacity: 16k steps
- Instruction execution speed: 0.24μs (basic instruction)
- COM port: Built-in RS-232 & RS-485 ports, compatible with Modbus ASCII/RTU protocol
- Data register: 10k words
- File register: 10k words

### High-Speed Pulse Output

20/32-point models support 2 points (Y0, Y2) of 200kHz pulse output. 40-point model supports 2 groups (Y0, Y1) (Y2, Y3) of A/B phase 200kHz pulse output & 2 points (Y4, Y6) of 200kHz pulse output.

### Built-in 4 Hardware High-Speed Counters

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

\*Refers to the max. counting range of a single counter.

- Supports 2-axis linear/arc interpolation motion control
- Runs with various high-speed function extension modules & function cards to achieve all kinds of real-time applications

### 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, the third serial COM port and many other functions.

### PLC-Link

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

### Linear/Arc Interpolation Motion Control

Supports the latest linear/arc interpolation instructions. Together with high-speed pulse output, DVP-EH2 is able to perform 2-axis synchronous control.

### 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 enhancing the efficiency of MPU program.

# DVP-S Series MPU



## DVP-SS2

- Suitable for basic applications
- Compact in size
- Extendable to 8 right-side modules

### Specification & Performance

- MPU points: 14 (8DI + 6DO)
- Max. I/O points: 494 (14 + 480)
- Program capacity: 8k steps
- COM port: Built-in RS-232 & RS-485 ports, compatible with Modbus ASCII/RTU protocol. Can be master or slave.

### High-Speed Pulse Output

Supports 4 points (Y0 ~ Y3) of independent high-speed (max. 10kHz) pulse output

### Supports PID Auto-tuning

DVP-SS2 saves parameters automatically after the PID auto temperature tuning is completed.

### Built-in High-Speed Counters

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

## DVP-SA2

- Large program capacity to enhance operation efficiency
- Extendable to 8 right-side modules
- Extendable to left-side high-speed interfaces
- Supports PLC-Link (max. speed: 921kbps)

### Specification & Performance

- MPU points: 12 (8DI + 4DO)
- Max. I/O points: 492 (12 + 480)
- Program capacity: 16k steps
- COM port: Built-in RS-232 & 2 RS-485 ports, compatible with Modbus ASCII/RTU protocol. Can be master or slave.

### High-Speed Pulse Output

Supports 2 points (Y0, Y2) of 100kHz and 2 points (Y1, Y3) of 10kHz independent high-speed pulse output.

### Extendable to Max. 8 Modules

DVP-SA2 is extendable to analog I/O, temperature measurement, input DIP switch, PROFINET/DeviceNet communication modules and single-axis motion control functions.

### Built-in High-Speed Counters

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

## DVP-SX2

- Built-in 4 channels of analog input & 2 channels of analog output
- Extendable to 8 right-side modules
- Extendable to left-side high-speed interfaces
- Supports PLC-Link (max. speed: 921kbps)

### Specification & Performance

- MPU points: 20 (8DI/6DO, 4AI/2AO)
- Max. I/O points: 494 (14 + 480)
- Program capacity: 16k steps
- COM port: Built-in RS-232, RS-485 & USB ports, compatible with ASCII/RTU protocol. Can be master or slave.

### High-Speed Pulse Output

Supports 2 points (Y0, Y2) of 100kHz and 2 points (Y1, Y3) of 10kHz independent high-speed pulse output.

### Built-in High-Speed Counters

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

\*Refers to the max. counting range of a single counter.

### 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.	-20~20mA or -10~10V 4~20mA

## DVP-SV

- Outstanding operation efficiency
- Large capacity for programming
- Extendable to left-side high-speed interfaces
- Supports linear/arc interpolation

### Specification & Performance

- MPU points: 28 (16DI/12DO)
- Max. I/O points: 512
- Program capacity: 16k steps
- Instruction execution speed: 0.24μs (basic instruction)
- COM port: Built-in RS-232 & RS-485 ports, compatible with Modbus ASCII/RTU protocol
- Data register: 10k words
- File register: 10k words

### High-Speed Pulse Output

- Supports 2 groups (Y0, Y1) (Y2, Y3) of A/B phase pulse output (max. 200kHz).
- Supports 2 points (Y4, Y6) of high-speed (max. 200kHz) pulse output.

### Built-in 4 Hardware High-Speed Counters

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

\*Refers to the max. counting range of a single counter.

# DVP-PM Series MPU



- Supports 3-axis linear/arc interpolation
- Max. differential output frequency: 500kHz
- G-code / M-code compatible

#### Specification & Performance

- MPU I/O points: 16
- Max. I/O points: 512
- Program capacity: 64k steps
- COM port: Built-in RS-232 & RS-485 ports, compatible with Modbus ASCII/RTU protocol.
- Data register: 10k words
- File register: 10k words
- Electronic cam: 2,048 points

#### 500kHz Differential Output

Built-in 2 groups of A/B phase differential signal output  
X axis pulse output: (FP0+, FP0-), (RP0+, RP0-)  
Y axis pulse output: (FP1+, FP1-), (RP1+, RP1-)

#### Supports MPG & Multiple External Signals Input

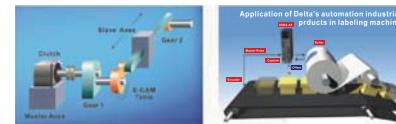
Direct external signal output is able to achieve real-time feedback and motion control.

Model name	Spec.
DVP20PM00D	—(C) (S) (R) → 2 axes
DVP20PM00M	—(C) (S) (R) → 3 axes

—(C) : AC power supply   (S) : Input points  
↑ : Output points   (R) : Relay output

## DVP20PM00D/M Electronic Cam

- Software offers cam editing function
- Cam curve: 2,048 points
- Able to define 3 cams and dynamically modify the curve
- Applicable in winding, flying shear and other cam controls



#### 3-Axis Linear/Arc/Helical Interpolation

The handy cam software compiles CAD file into G-code and uploads it into DVP-PM for executing complicated 2-axis linear/arc interpolation in for example CNC machines.

#### Motion Control MPU, as well as Extension Module

Apart from being a motion control MPU operating independently, DVP-PM can further be the extension module for EH series MPU. The user has to pre-plan the motion schedule and upload it to DVP-PM (as slave), and EH series MPU will only need to give "run" and "stop" commands. As an extension module, DVP-PM works independently and will not affect the scan time of the MPU.

#### Compatible with Extension Modules of EH2 Series MPU

DVP-PM offers flexible applications and is compatible with extension modules of EH series MPU.



#### Function Cards for DVP-PM

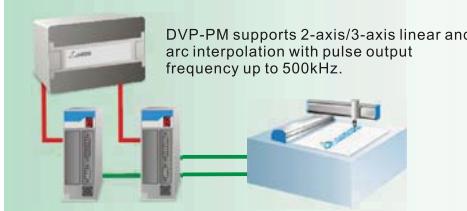
Model name	Spec.	Features
PM-PCC01	Data backup memory card	Auto read/write program
DVP-FPMC	Ethernet/CANopen communication card	1. Complies with CANopen DS301 V4.01 protocol. 2. Supports CANopen DS402 V2.1.4 synchronous axes, 128 asynchronous axes. 3. Provides high-speed upload/download of Ethernet program.

#### Can be MPU or Extension Module



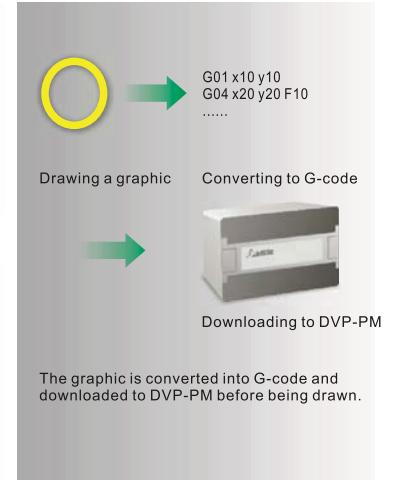
DVP-PM can be used as a PLC MPU as well as an extension module. It is compatible with all EH2 series extension modules.

#### Professional Motion Control

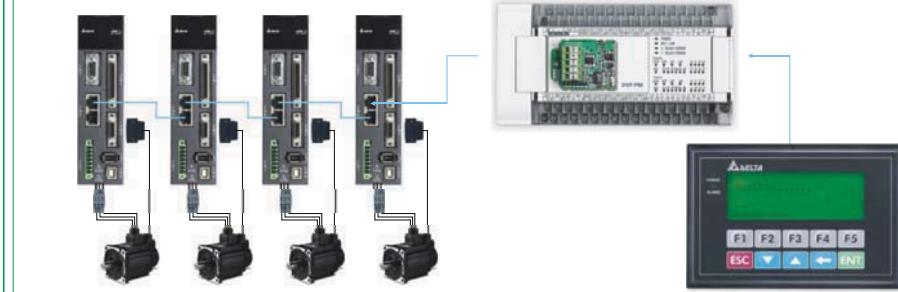


DVP-PM supports 2-axis/3-axis linear and arc interpolation with pulse output frequency up to 500kHz.

#### G-Code Compatible



**DVP-PM series motion controller supports G-code, electronic cam, arc interpolation between any 2-axis, linear interpolation among any 3-axis and many other complex motion controls.**



# Applications of DVP-PM

*Speedy, Stable, Precise*

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.

## High-Speed Cutting Machine

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



## Digital Board Cutting Machine

Conventionally, PLC finishes cutting through the use of interruption, together with big following error. Now the rotary shear function built in DVP-PM is able to complete all kinds of demands, e.g. synchronous conveyance and cutting speed, to ensure precise cutting results.



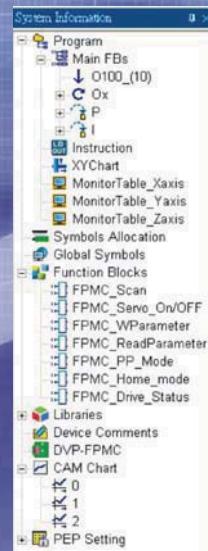
## CNC Lathe

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



## PMSoft

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



### Variable Declaration

Separate from the program. The corresponding physical I/O point of the variable is defined only after the program is compiled. The user does not need to modify the program.

### Function Block

A complicated project can be divided into many function blocks. A function block can be used repeatedly. The import/export function makes the programming more convenient.

### Full Monitoring & Simulation

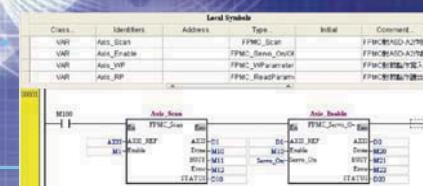
The "program monitoring" and "device monitoring" allow the user to keep track of the operation of program. The simulator can be connected to human machine interface simulator.

### Motion Network Function Block

PLC Open Function Block function

### Electronic Cam

Electronic cam edition



### Human Machine Interface Simulator



# Delta Industrial Automation Solutions



Delta industrial automation products offer stable, fast and accurate solutions through industrial networks.



## Ethernet

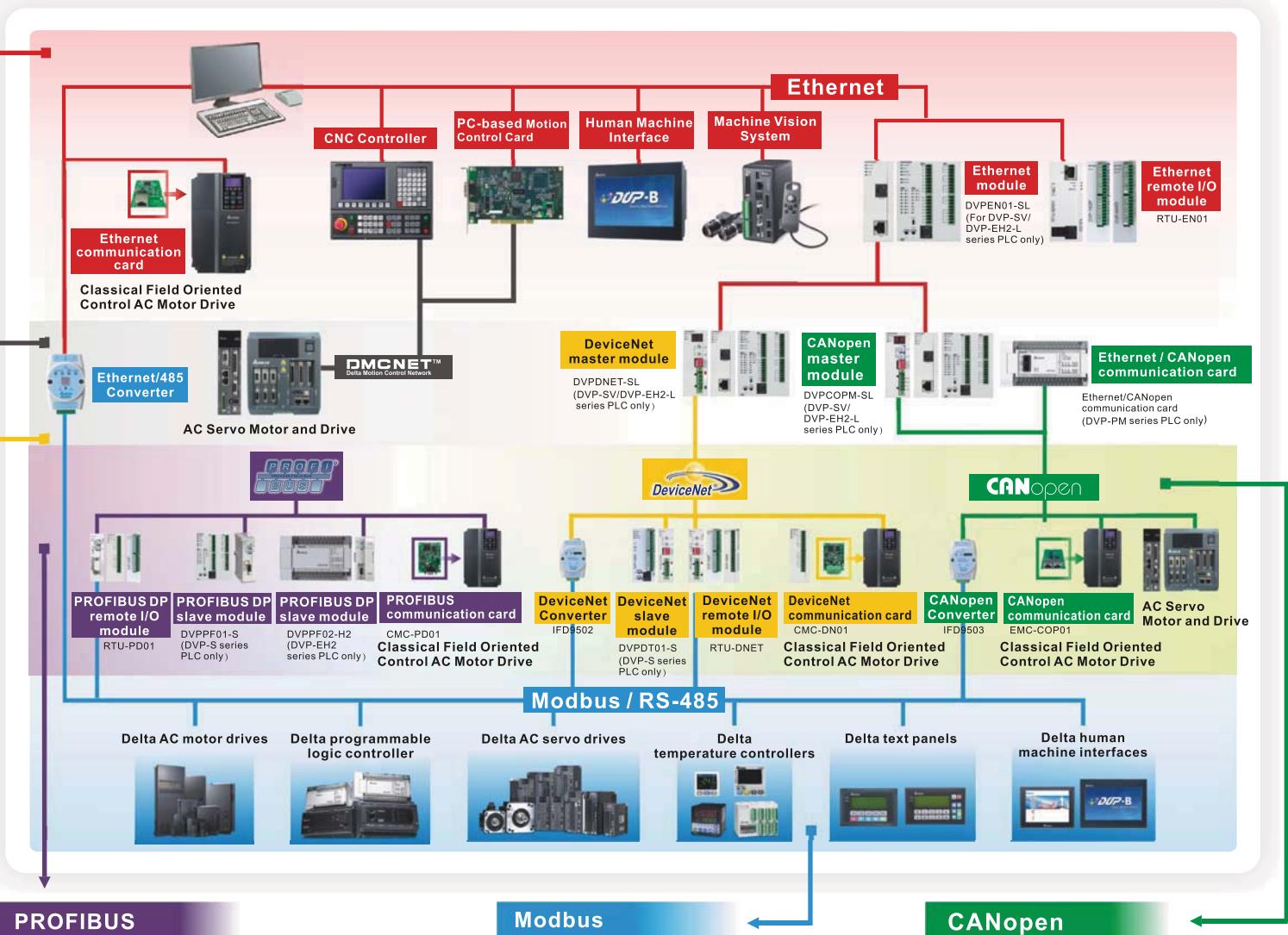
Delta Ethernet products transcend the limits on transmission distance, offering 10/100M bps high-speed transmission and efficient remote monitoring.

## DMCNET

Delta DMCNET offer 10M bps 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.

## DeviceNet

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



## PROFIBUS

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

## Modbus

Delta Modbus serial products integrate easily with devices of other brands, e.g. the communication among RS-232, RS-422, RS-485 and custom-defined formats, bringing forth very flexible on-site applications.

## CANopen

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

# TP Series Text Panel



## TP04G-AL2 TP04G-AL-C

- 4.1" STN LCD
- User-defined function keys available
- Supports RS-232/RS-422/RS-485 communication ports (TP04G-AL2)
- User-defined boot screen available
- Supports Modbus Slave mode

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

## TP02G-AS1 TP04G-AS2

- STN LCD size: 72 x 22mm (TP02 series), 3" (TP04 series)
- Resolution: 160 x 32 dots (TP02 series), 128 x 64 dots (TP04 series)
- TP02 series provides 16 user-defined function keys  
TP04 series provides 12 user-defined function keys
- TP02 series supports RS-232 and RS-485 COM ports  
TP04 series supports RS-232 and RS-485/RS-422 COM ports

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

## TP04G-BL-C

- 4.1" STN LCD
- 0~9 numeric keys and user-defined function keys available
- Built-in RS-232 Modbus ASCII/RTU mode
- User-defined boot screen available
- Supports Modbus slave mode

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

## TP08G-BT2

- 3.8" STN LCD
- Resolution: 240 x 128 dots
- Built-in 1,024kB flash memory
- 24 user-defined function keys available
- Built-in RS-232 and RS-485/RS-422 COM ports
- Supports recipe and macro functions
- Supports Modbus slave mode

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

## Hardware Specifications

Model name		TP02G-AS1	TP04G-AS2	TP08G-BT2	TP04G-AL-C	TP04G-AL2	TP04G-BL-C		
Display specifications		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	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

**DVP-EH2**

**Small PLC with the Strongest Operation Efficiency!**



## Function Cards

■ Convert RS-485 into RS-232/422 for COM2 DVP-F232	■ Digital Input Point Extension DVP-F4IP	■ DIP Switch Input DVP-F8ID
■ Add additional 3rd COM port DVP-F232S	■ Transistor Output DVP-F2OT	■ Frequency Measurement Card DVP-F2FR
■ Analog I/O DVP-F2DA	■ Analog Input DVP-F6VR	

## Accessories

■ Data Backup Card DVP-256FM (for special purpose)	■ Data Transmission Cable DVPPCC01 (for general purpose)	■ Handheld Programming Panel DVP-HPP
■ Digital Display Panel DVPDU01	■ Extension Cable Connector for EH/PM Series DVPAEXT01-H	
■ Connector for MPU & Extension Module DVpacab4A09(0.9m) DVpacab4A18(1.8m)		

Model name	Spec.
DVP16EH00R2	—AC— 6 8 R
DVP16EH00T2	—AC— 6 8 T
DVP20EH00R2	—AC— 12 8 R
DVP20EH00T2	—AC— 12 8 T 2-axes of 200kHz (each axis) pulse output; supports 1 group of linear/arc interpolation.
DVP32EH00R2	—AC— 16 16 R
DVP32EH00T2	—AC— 16 16 T 2-axes of 200kHz (each axis) pulse output; supports 1 group of linear/arc interpolation.
DVP32EH00M2	—AC— 16 16 M 2-axes of 200kHz (each axis) pulse output.
DVP32EH00R2-L*	—AC— 16 16 R
DVP32EH00T2-L*	—AC— 16 16 T 2-axes of 200kHz (each axis) pulse output; supports 1 group of linear/arc interpolation.
DVP40EH00R2	—AC— 24 16 R
DVP40EH00T2	—AC— 24 16 T 4-axes of 200kHz (each axis) pulse input/output; supports 2 groups of linear/arc interpolation.
DVP48EH00R2	—AC— 24 24 R
DVP48EH00T2	—AC— 24 24 T
DVP64EH00R2	—AC— 32 32 R
DVP64EH00T2	—AC— 32 32 T
DVP80EH00R2	—AC— 40 40 R
DVP80EH00T2	—AC— 40 40 T

\*—AC— : AC power supply   C : Input points   ↑ : 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 DVP16HN11R/T DVP32HN00R/T	■ Input/Output Point Extension DVP08HP11R/T DVP16HP11R/T DVP32HP00R/T DVP48HP00R/T
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## 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
■ Sensor: Pt100 DVP04PT-H2		

## 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
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\*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

- 256 / 238 points
- 100kHz pulse output
- Analog input/output



reddot design award  
winner 2010

Model name	Spec.
DVP16ES200R	-DC- G 8↑ R→
DVP16ES200T	-DC- G 8↑ T→
DVP24ES200R	-DC- G 6↑ R→
DVP24ES200T	-DC- G 6↑ T→
DVP32ES200R	-DC- G 16↑ R→
DVP32ES200T	-DC- G 16↑ T→
DVP32ES211T	-DC- G 16↑ T→
DVP40ES200R	-DC- G 24↑ R→
DVP40ES200T	-DC- G 24↑ T→
DVP60ES200R	-DC- G 24↑ R→
DVP60ES200T	-DC- G 24↑ T→

Model name	Spec.
DVP20EX200R	-DC- G 6↑ 4AI/2AO R→
DVP20EX200T	-DC- G 6↑ 4AI/2AO T→

-DC- : AC power supply   G : Input points   ↑ : Output points  
-DC- : DC power supply   T→ : Transistor output  
R→ : Relay output

Digital I/O Modules		
■ Input Point Extension	■ Output Point Extension	■ Input/Output Point Extension
DVP08XM211N	DVP08XN211R/T	DVP08XP211R/T
DVP16XM211N	DVP16XN211R/T	DVP16XP211R/T



Analog I/O Modules		
■ Input Point Extension	■ Output Point Extension	■ Input/Output Point Extension
DVP04AD-E2	DVP04DA-E2	DVP06XA-E2



Temperature Measurement Modules		
■ DVP04PT-E2	■ DVP04TC-E2	

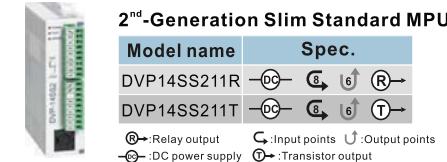


**Compact Appearance; Flexible Extension!**

## DVP-SS2

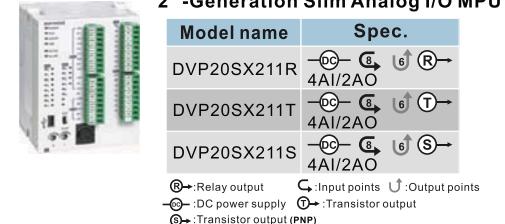
2 <sup>nd</sup> -Generation Slim Standard MPU	
Model name	Spec.
DVP14SS211R	-DC- G 6↑ 6↑ (R→)
DVP14SS211T	-DC- G 6↑ 6↑ (T→)

(R→ : Relay output   G : Input points   ↑ : Output points  
-DC- : DC power supply   T→ : Transistor output)



## DVP-SX2

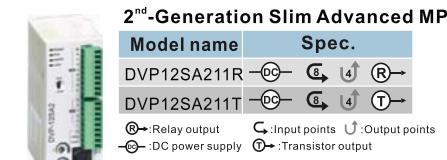
2 <sup>nd</sup> -Generation Slim Analog I/O MPU	
Model name	Spec.
DVP20SX211R	-DC- G 6↑ 6↑ (R→) 4AI/2AO
DVP20SX211T	-DC- G 6↑ 6↑ (T→) 4AI/2AO
DVP20SX211S	-DC- G 6↑ 6↑ S→ 4AI/2AO



## DVP-SA2

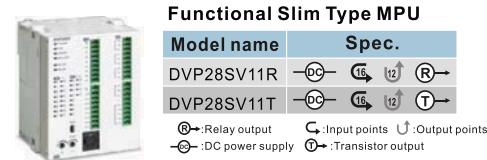
2 <sup>nd</sup> -Generation Slim Advanced MPU	
Model name	Spec.
DVP12SA211R	-DC- G 4↑ 4↑ (R→)
DVP12SA211T	-DC- G 4↑ 4↑ (T→)

(R→ : Relay output   G : Input points   ↑ : Output points  
-DC- : DC power supply   T→ : Transistor output)



## DVP-SV

Functional Slim Type MPU	
Model name	Spec.
DVP28SV11R	-DC- G 16↑ 12↑ (R→)
DVP28SV11T	-DC- G 16↑ 12↑ (T→)



# Extension Modules

# Electrical Specifications



## Left-Side High-Speed Extension Modules

### Communication Modules

- DeviceNet Master DVPDNET-SL



- Ethernet DVPEN01-SL

- CANopen Master DVPCOPM-SL



### Analog Function Extension

- Analog Input DVP04AD-SL



- Analog Output DVP04DA-SL



- DVP02LC-SL\* Load Cell Module

## General Extension Modules

### I/O Point Extension

#### ■ Input Point Extension

- DVP08SM11N
- DVP16SM11N



#### ■ Output Point Extension

- DVP06SN11R

- DVP08SN11R/T



#### ■ 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

#### ■ PROFINET 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. DVP32EH00R2-L & DVP32EH00T2-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 Point Specification<sup>\*1</sup>

Max. Input frequency	10kHz	20kHz	100kHz	200kHz
Input signal type	SINK / SOURCE			
Input signal voltage	24VDC ± 10% (5mA)			
Response time <sup>*2</sup>	EH2/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
	ES2/EX2			
	ES/EX			
	SS/SA/SX/SC			
	SS2			
	SA2/SX2			

\*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<sup>\*1</sup>

	Transistor-T	Relay-R	
		General speed	High speed
Current spec.	Max. exchange (working) frequency	1Hz <sup>*2</sup>	10kHz
	EH2/SV/PM	2A	SA2/SX2/ES2/EX2 Resistive: 0.5A/point (4A/COM) Conductive: 12W (24VDC) Light bulb: 2W (24VDC)
	ES2/EX2		
	ES/EX		
	SS/SA/SX/SC SS2/SA2/SX2	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: 0.5μs ON→OFF: 2.5μs

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

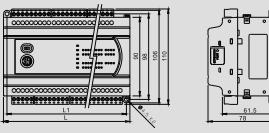
\*2. Relay life: Resistive load -> more than 200,000 times; conductive load -> more than 80,000 times.

# Dimension



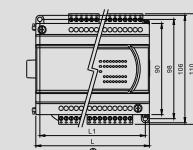
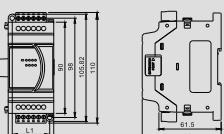
## ES2/EX2 Series MPU

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



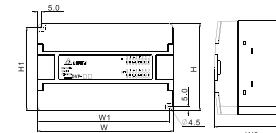
## ES2/EX2 Series Extension Modules

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	○



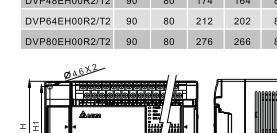
## ES/EX Series MPU

Model name (mm)	H	H1	W	W1	W2
DVP14ES00R/T2	100	95	104	99	82
DVP24ES00(1)R2/T2	100	95	155	150	82
DVP30ES00R/T2	100	95	155	150	82
DVP32ES00R/T2	100	95	155	150	82
DVP40ES00R/T2	100	95	155	150	82
DVP60ES00R/T2	100	85.5	185	180.5	89.6
DVP20EX00(1)R2/T2	100	95	155	150	82



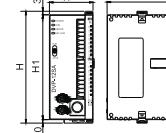
## EH2 Series MPU

Model name (mm)	H	H1	W	W1	W2
DVP16EH00R/T2	90	80	113	103	82
DVP20EH00R/T2	90	80	113	103	82
DVP32EH00M2	90	80	143.5	133.5	82
DVP32EH00R/T2	90	80	143.5	133.5	82
DVP32EH00R2-L	90	80	143.5	133.5	82
DVP32EH00T2-L	90	80	143.5	133.5	82
DVP40EH00R/T2	90	80	158.8	153.8	82
DVP48EH00R/T2	90	80	174	164	82
DVP64EH00R/T2	90	80	212	202	82
DVP80EH00R/T2	90	80	276	266	82



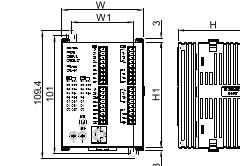
## SS/SA/SX/SC/SS2/SA2 Series MPU

Model name (mm)	H	H1	W	W1
DVP14SS11R2/T2	96	90	25.2	60
DVP14SS21R/T	96	90	25.2	60
DVP12SA11R/T	96	90	37.4	60
DVP12SA21R/T	96	90	37.4	60
DVP10SX11R/T	96	90	37.4	60
DVP12SC11T	96	90	37.4	60



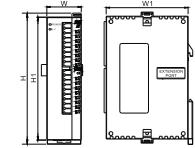
## SV/SX2 Series MPU

Model name (mm)	H	H1	W	W1
DVP28SV1R/T	60	90	70	53.2
DVP28SX211R/T/S	60	90	70	53.2



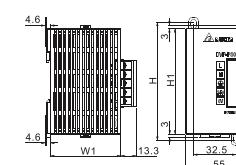
## S Series Extension Modules

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
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



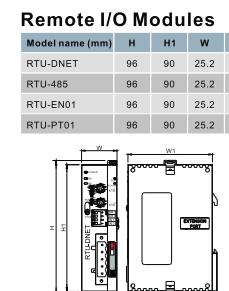
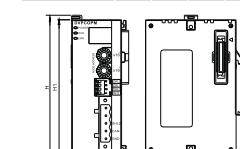
## PS01/02 Power Supply Modules

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

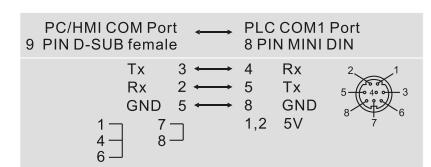
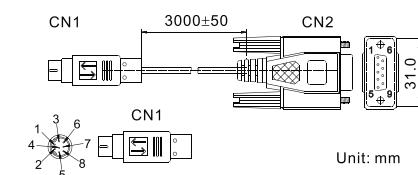


## Left-Side High-Speed Extension Modules

Model name (mm)	H	H1	W	W1
DVPEN01-SL	96	90	33.1	60
DVPCOPM-SL	96	90	33.1	60
DVDPNET-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



# ISPSof Programming Software



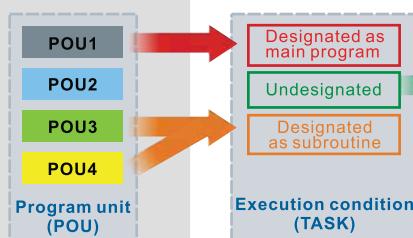
## ISPSof 1.0

The new PLC programming software, ISPSof, compatible with all DVP series PLC, supports ladder diagram, function block and many other programming modes and is able to edit program in modular way. ISPSof saves your time in developing large projects. Use the already made function block over and over again to increase your economical benefits.

### Task Designation

The entire program is divided into many program units (POU), including programs and function blocks. The compiled POU can only be operated under designated condition (TASK) to control the execution of PLC.

To create new cyclic or interruption programs, you have to create new POU and designate TASK first. Undesignated POU will not be executed.



### Function Block

The complicated project can be parted to many program units or function blocks. The function block can be used repeatedly.

The function block can be made and used freely in the program. Use import/export function to apply the block in different programs. Particularly when many programs require the same function, the function block helps increase the efficiency of program editing.

### SFC Chart

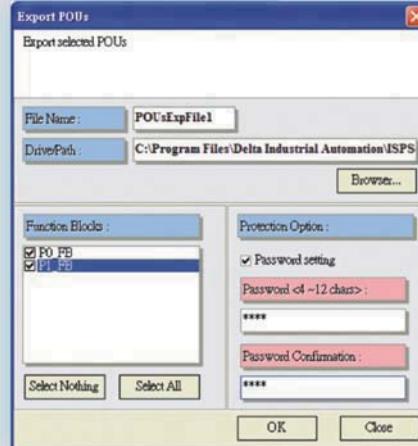
Direct editing of SFC chart allows faster and handier programming process.

This section shows the SFC Chart editor interface, allowing for direct editing of state transitions and conditions.



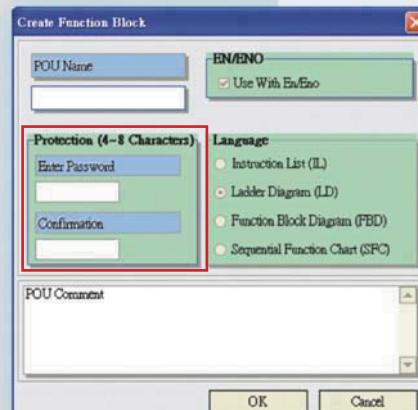
## ISPSof 1.0

### Function Block Import/Export



### Password Protection

The user can set up password for each function block. When the block is used in other programs, the password is required to open the editing window of the block.



### Variable Declaration

**Global variable:** Separate from the program. The corresponding physical I/O point of the variable is defined only after the program is compiled. The user does not need to modify the program when the definition of the physical I/O point is changed. Only the device corresponding to the variable needs to be modified.

**Local variable:** Stored in POU. If the user does not give it a device, the system will automatically allocate a device to the variable when compiling.

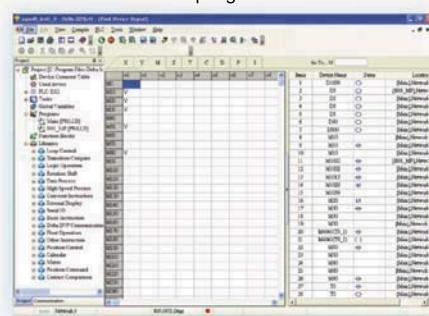
When writing the function block, it is suggested that the variable be configured by the system itself to increase the independency of the block.

Global Variables				
Variables	Address	Type	Initial Value	Comment
A1		BOOL	FALSE	
A2		BOOL	FALSE	
A3		BOOL	FALSE	
TEMP		WORD	0	
P0_F0		P0_F0		
A11		P1_F0		
W005		P1_F0		

Designate corresponding physical I/O points

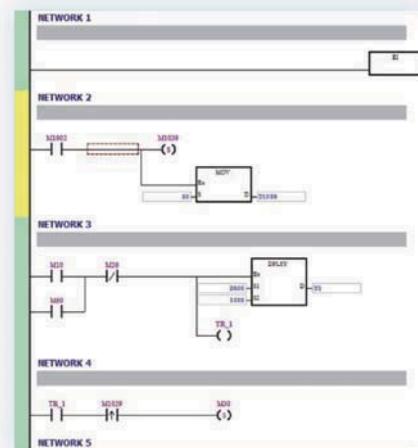
### Device List

The device list helps the user to know clearly all the devices used in the program.



### Structural Editing

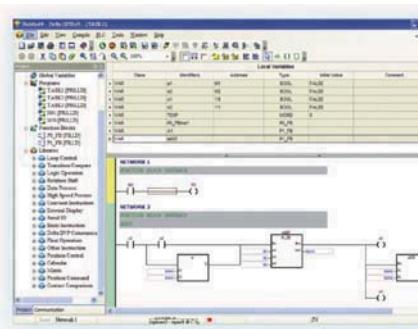
Every section of the program is composed of many networks. ISPSof provides many kinds of components for the user to drag for use.



The user can enable/disable every network to trial run or debug the program and clarify the program structure.

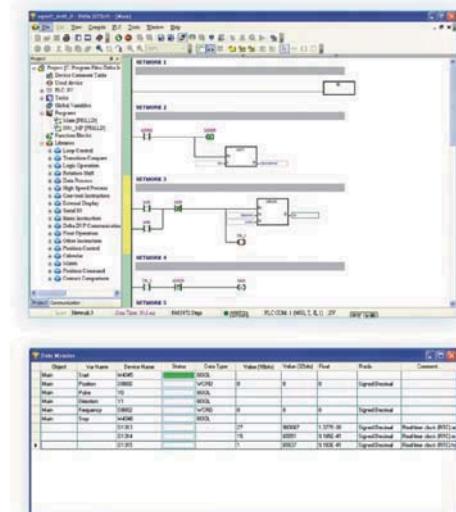
### Flexible Use of Components

Drag the components in the function library to use for editing.



### Complete Monitoring

The "Program monitoring" and "Device monitoring" allow the user to keep track of the operation of program.



### Compatible with WPLSoft

The user can convert the file edited in WPLSoft to be compatible with ISPSof.



# Ordering Information



## Model Name Explanation

● MPU		● DI/DO Module		● AI/AO Module	
DVP	○ ○ □ □ ○ ○ □ ○	DVP	○ ○ □ □ ○ ○ □	DVP	○ ○ □ □ - □ ○
Series	① ② ③ ④ ⑤	Series	① ② ③ ④ ⑤	Series	① ② ③
1. Total I/O points		1. Total I/O points		1. Total I/O points	
2. Model		2. Model		2. Model	
ES/ES2 : ES/ES2 series MPU		X : For ES/EX/ES2/EX2 series MPU		AD : Analog/digital conversion	
EX/EX2 : EX/EX2 series MPU		S : For SS/SA/SX/SC/SV series MPU		DA : Digital/analog conversion	
SS/SS2 : SS/SS2 series MPU		For SS2/SA2/SX2/SC/SV series MPU		PT : PT100 type temperature module	
SA/SA2 : SA/SA2 series MPU		H : For EH/EH2/PM series MPU		TC : Thermocouple type temperature	
SX/SX2 : SX/SX2 series MPU		Module		Module	
SC : SC series MPU		XA : AD + DA module			
SV : SV series MPU					
PM : PM series MPU					
EH : EH series MPU					
3. Power supply		3. Model			
00 : AC power input		S : For SS/SA/SX/SC/SV series MPU			
11 : DC power input		For SS2/SA2/SX2/SC/SV series MPU			
4. Output type		H : For EH/EH2/PM series MPU			
R : Relay		H2 : For EH2 series MPU			
T : Transistor (NPN)		SL : For MPU with left-side interface			
M : Mixed with differential signal		E : For ES/EX series MPU			
S : Transistor (PNP)		E2 : For ES2/EX2 series MPU			
5. Version					
● PI/PO Module		● Peripherals		● Network Module	
DVP	○ ○ □ □ - □ ○	DVP	□ □ ○ ○	DVP	□ □ ○ ○ □ □
Series	① ② ③	Series	① ②	Series	① ②
1. Total I/O points		1. Product name		1. Model	
2. Model		HPP : Handheld programming panel		EN01 : Modbus TCP	
HC : High-speed counter		DU : Digital display panel		DNET : DeviceNet master	
PU : Single-axis positioning module		01 : Type 01		COPM : CANopen master	
3. Model		02 : Type 02		CP02 : CANopen master	
H : For EH/EH2/PM series MPU		03 : Type 03		DT01/02 : DeviceNet master	
S : For SS/SA/SX/SC/SV series MPU				PF01/02 : PROFIBUS DP master	
For SS2/SA2/SX2/SC/SV series MPU					
SL: left-side extension for SV					
series MPU					
● Accessory: Cable		● Remote I/O		● Function Card	
DVP A CAB	○ ○ ○	RTU	□ □ ○ ○	DVP - F	○ ○ ○ ...
Series	① ② ③ ④	Series	①	Series	① ② ③
1. Accessory		1. Model		1. Function Card	
2. Type		DNET : DeviceNet		DVP - F	
CAB : Cable		485 : RS-485			
3. Type		EN01 : Modbus TCP			
1, 2, 3, 4, ....					
4. Length					
15 : 1.5m					
30 : 3.0m					
● Accessory: Other		1. Accessory			
DVP A BT	○ ○	2. Type	232 : RS-232 card	3. Particular definition	
Series	① ② ③		422 : RS-422 card	S : Slave mode	
1. Accessory			2OT : 2DO card, transistor output...	(applicable to COM3 coding only)	
2. Type					
Bt : Battery					
3. Type					
01, 02, ....					

## Select A Suitable PLC

Select your desired specifications and locate the most suitable MPU.

Item	Spec.	Check	Model						
			ES2	EX2	EH2	SS2	SA2	SX2	SV
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"/>	○	○	○	○	○	○	○
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"/>			△		△ <sup>*1</sup>	△ <sup>*1</sup>	△ <sup>*1</sup>
	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"/>	○	○		○	○	○	
	> 2 channels	<input type="checkbox"/>			○ <sup>*3</sup>	△	△	△	○
	200kHz high speed	<input type="checkbox"/>			○	△	△	△	○
Analog function	< 4 channels (AD)	<input type="checkbox"/>	△	○	△	△	△	○	△
	< 2 channels (DA)	<input type="checkbox"/>	△	○ <sup>*2</sup>	△	△	△	○ <sup>*2</sup>	△

### 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 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 6 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	
	100~240VAC	Relay	36	24	DVP60ES00R2	
	100~240VAC	Transistor	36	24	DVP60ES00T2	
EX series analog MPU	100~240VAC	Relay	8	6	DVP20EX00R2	
		Analog	4	2		
	100~240VAC	Transistor	8	6		
		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	-	DVP08XN11N	
	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	
	Transistor	16	8	DVP24XP00R	
	Relay	-	24	DVP24XN00R	
	Transistor	-	24	DVP24XN00T	

## 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*1	
	100~240VAC	Relay	24	16	DVP40ES200R	
	100~240VAC	Transistor	24	16	DVP40ES200T	
	100~240VAC	Relay	36	24	DVP60ES200R	
	100~240VAC	Transistor	36	24	DVP60ES200T	
	100~240VAC	Relay	8	6	DVP20EX200R	
	100~240VAC	Analog	4	2		
	100~240VAC	Transistor	8	6		
	100~240VAC	Analog	4	2	DVP20EX200T	
Fastest execution time of basic instructions			0.35μs		Execution time of MOV instruction	
					3.4μs	

\*1. Consult your sales representative for the official launch date.

## 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	

# 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	■ 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	
	■ 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	
DVP-ES2/EX2 series temperature measurement module	■ 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 Series MPU

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
EH2 series standard MPU	100~240VAC	Relay	8	8	DVP16EH00R2	
	100~240VAC	Transistor	8	8	DVP16EH00T2	
	100~240VAC	Relay	12	8	DVP20EH00R2	
	100~240VAC	Transistor	12	8	DVP20EH00T2	
		Built-in 2-axis of independent 200kHz pulse output				
	100~240VAC	Transistor	16	16	DVP32EH00T2	
		Built-in 2-axis of independent 200kHz pulse output				
	100~240VAC	Relay	16	16	DVP32EH00R2	
	100~240VAC	Differential	16	16	DVP32EH00M2	
	100~240VAC	Relay	16	16	DVP32EH00R2-L	
		Transistor	16	16	DVP32EH00T2-L	
	100~240VAC	Transistor	24	16	DVP40EH00T2	
		Built-in 4-axis of independent 200kHz pulse output				
	100~240VAC	Relay	24	16	DVP40EH00R2	
	100~240VAC	Relay	24	24	DVP48EH00R2	
	100~240VAC	Transistor	24	24	DVP48EH00T2	
	100~240VAC	Relay	32	32	DVP64EH00R2	
	100~240VAC	Transistor	32	32	DVP64EH00T2	
	100~240VAC	Relay	40	40	DVP80EH00R2	
	100~240VAC	Transistor	40	40	DVP80EH00T2	

Execution time of basic instructions

0.24µs

## EH2 Series Digital/Analog Module

Product name	Output method	Inputs	Outputs	Model name	Certificates
Digital module	Relay	4	4	DVP08HP11R	
	Relay	4	4	DVP08HP11T	
	Relay	-	8	DVP08HN11R	
	-	8	-	DVP08HM11N	
	Relay	8	8	DVP16HP11R	
	Transistor	8	8	DVP16HM11T	
	-	16	-	DVP16HM11N	
	Relay	-	32	DVP32HN00R	
	Transistor	-	32	DVP32HN00T	
	Relay	16	16	DVP32HP11R	
Analog module	Transistor	16	16	DVP32HP11T	
	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	

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

## EH2 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			DVP/PF02-H2	
	CANopen slave communication module			DVPCP02-H2	
	DeviceNet slave communication module			DVPDT02-H2	
Function card	RS-232 port conversion (COM2)			DVP-F232	
	RS-422 port conversion (COM2)			DVP-F422	
	RS-232 port extension (COM3)			DVP-F232S	
	RS-485 port extension (COM3)			DVP-F485S	
	• 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	
	4 points of digital input			DVP-F4IP	
	2 points of transistor output			DVP-F2OT	
	8 points of digital switch input			DVP-F8ID	
	6 points of analog switch input			DVP-F6VR	
Digital display panel	Frequency measurement card			DVP-F2FR	
	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
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	6 (2AI)	4 (2AO)	DVP10SX11R	
	24VDC	Transistor	6 (2AI)	4 (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

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	
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
SV series functional MPU	24VDC	Relay	16	12	DVP28SV11R	
	24VDC	Transistor	16	12	DVP28SV11T	
Execution time of basic instructions					0.24μs	

**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	
	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	
	• 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	<ul style="list-style-type: none"> <li>4 groups of analog input *1</li> <li>Signal range: -5~5V, 0~5V, -5~5V, 0~10V, -10~10V, 4~20mA, 0~20mA, -20~20mA</li> <li>Resolution: 16-bit</li> <li>Single channel On/Off setup enhances entire conversion efficiency.</li> <li>Conversion time: 250μs/point</li> <li>Off-line alarm (1~5V, 4~20mA)</li> </ul>					
	<ul style="list-style-type: none"> <li>4 groups of analog input *1</li> <li>Signal range: 0~10V, -10~10V, 4~20mA, 0~20mA</li> <li>Resolution: 16-bit</li> <li>Offers single channel On/Off setup</li> <li>Conversion time: 250μs/point</li> </ul>					
Left-side high-speed load cell module	<ul style="list-style-type: none"> <li>2 load cell modules *1</li> <li>Resolution: 20-bit</li> <li>Connectable to 4-wire/6-wire load cell sensor</li> <li>Measurable range: 0~6m/V</li> </ul>					
	<ul style="list-style-type: none"> <li>4 points of platinum RTD (PT100) sensor input *1</li> <li>Resolution: 0.1°C</li> <li>Built-in RS-485 interface</li> </ul>					
Temperature measurement module	<ul style="list-style-type: none"> <li>4 points of thermocouple (J、K、R、S、T type) sensor input *1</li> <li>Resolution: 0.1°C</li> <li>Built-in RS-485 interface</li> </ul>					
	<ul style="list-style-type: none"> <li>2 servo position control module (single axis, 200kHz)</li> </ul>					
Positioning module	DeviceNet slave communication module					
	PROFIBUS DP slave communication module					
Left-side high-speed communication module	Ethernet communication module, 10/100Mbps					
	DeviceNet master communication module, 500kbps					
	CANopen master communication module, 1Mbps					
Remote I/O module	RS-485 remote I/O module, connectable to S series I/O modules					
	Ethernet remote I/O module, connectable to S series I/O modules					
	DeviceNet remote I/O module, connectable to S series I/O modules					
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	IDF6500	
	USB to CAN converter	IDF6503	
	USB to RS-485 converter	IDF6530	
	Modbus TCP to RS-232/485 converter	IDF9506	
	EtherNet/IP to RS-232/485 converter	IDF9507	
	DeviceNet to RS-232/485 converter	IDF9502	
RS-232 to RS-485/422 isolated converter	CANopen to RS-232/485 converter	IDF9503	
	RS-232 to RS-485/422 isolated converter	IDF8500	
	RS-485 to RS-422 isolated repeater	IDF8510	
	RS-485/422 to RS-232 addressable isolated converter	IDF8520	

For more detailed specifications, visit: <http://www.delta.com.tw/industrialautomation> for all user's manuals of DVP-PLC.

# Ordering Information



## PM Series

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
Professional motion control MPU	100~240VAC	Differential	8	8	DVP20PM00D	
		(Built-in 2-axis of independent 500kHz pulse output)				
		(Built-in 3-axis of independent 500kHz pulse output)			DVP20PM00M	
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		3.3μs	Execution time of MOV instruction		3.74μs	

## 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	
TP08	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	DVPHP02	
	Data backup memory card (built-in 1 in DVPHP01)	DVP-256FM	
	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-DR16A	
	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 connector for EH series MPU and extension module	DVPAEXT01-H	
	Extension cable for EH series MPU and extension module, 0.9m	DVPACAB4A09	
	Extension cable for EH series MPU and extension module, 1.8m	DVPACAB4A18	
	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 DVOPEN01-SL, RTU-EN01, IFD9506, IFD9507	Windows 2000, XP, Vista, Windows 7(32-bit/64-bit)
DeviceNetBuilder	DeviceNet configuration software	Windows 2000, XP
CANopenBuilder	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	Model name	Certificates
DVP series	1-phase	85 ~ 264 VAC	24V	DVPPS01	
				DVPPS02	
				DRP012V015W1AZ	
				DRP012V030W1AZ	
				DRP012V060W1AZ	
				DRP012V100W1AZ	
				DRP024V060W1AZ	
				DRP024V060W1AA	
				DRP024V120W1AA	
				DRP024V240W1AA	
				DRP024V480W1AA	
				DRP024V060W3AA	
				DRP024V120W3AA	
				DRP024V240W3AA	
				DRP024V480W3AA	
DRP series	1-phase	85 ~ 264 VAC/120~375 VDC	12V	DRP024V060W3AA	
				DRP024V120W3AA	
				DRP024V240W3AA	
				DRP024V480W3AA	
				PMC-12V035W1AA	
				PMC-12V050W1AA	
				PMC-12V100W1AA	
				PMC-24V035W1AA	
				PMC-24V050W1AA	
				PMC-24V075W1AA	
				PMC-24V100W1AA	
				PMC-24V150W1AA	
PMC series	1-phase	85 ~ 264 VAC/120~375 VDC	12V	PMC-12V035W1AA	
				PMC-24V050W1AA	
				PMC-24V075W1AA	
				PMC-24V100W1AA	
				PMC-24V150W1AA	
			5V	PMC-DSPV100W1A (dual output)	
			24V		

For more detailed specifications, visit: <http://www.delta.com.tw/industrialautomation> for all user's manuals of DVP-PLC.