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# DVP

## DELTA Programmable Logic Controller



www.delta.com.tw/industrialautomation



# DVP Series

Delta DVP series programmable logic controllers (PLC) are compact in size with outstanding performance, high capacity for program planning (Max. 16K steps) and can work with various function extension modules. All PLC MPUs have strong built-in communication functions and handy communication instructions. No extra communication modules are needed, Delta DVP PLCs is able to construct a complete control network with all Delta industrial automation products. Delta PLC MPUs satisfy all kinds of applications, e.g. MPU for basic sequential control, special MPU with built-in analog function or for motion controls and advanced MPU for heavy operation requirements. Delta's small PLCs also offer the most cost-effective solution that most meets your need.

# E Series MPU



## DVP-EX

- Built-in 4-channel analog input and 2-channel analog output
- Integral communication functions
- Lowest-cost MPU of analog functions

### Specification & Performance

MPU points: 20(8DI/6DO, 4AI/2AO)  
 Max. I/O points: 238  
 Program capacity: 4K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol

### High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 10KHz.

### 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

\*Bandwidth refers to the max. counting bandwidth of a single counter.

### Built-in Analog Input/Output

Analog Input		Analog Output	
Points	Resolution	Points	Resolution
4	10-Bit	2	8-Bit
Specification	-20~20mA or -10~10V	Specification	0~20mA or 0~10V

## DVP-ES

- High reliability
- Maximum 256 I/O points extendable
- Most economical solution to small PLC sequential control and communication monitoring

### Specification & Performance

MPU points: 14/24/32/40/60  
 Max. I/O points: 256  
 Program capacity: 4K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol

### High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 10KHz.

### 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

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

## DVP-EH2

- Outstanding operation performance
- Built-in large space for program and data storage
- Supports more than 203 application instructions
- 2-axis linear/arc interpolation motion control
- Run with various selections of high-speed function extension modules/function cards for all kinds of real-time applications

### 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 (for basic instruction)  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol.  
 Data register: 10,000 words  
 File register: 10,000 words

### High-Speed Pulse Output

The pulse outputs 20-point and 32-point models support 2-point 200KHz pulse outputs (Y0, Y2).  
 The 40-point models support 2-group A, B phase 200KHz pulse outputs (Y0, Y1), (Y2, Y3) and 2-point 200KHz pulse output (Y4, Y6)

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

Standard	Hardware High-Speed Counter				
	1 phase 1		2 phase 2		
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
6	10KHz	2/2	200KHz/20KHz	2/2	200KHz/20KHz

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

### Outstanding Operation Performance

CPU + ASIC dual processors support floating point operations. The maximum execution speed of basic instructions can reach up to 0.24μs

### Flexible Function Extension Modules / Function Cards

Multiple function extension modules/function cards contain additional functions of analog I/O, temperature measurement, single-axis motion control, high-speed counting and a 3<sup>rd</sup> series communication port, etc.

### PLC EASY LINK

PLC EASY LINK allows users to link maximum 32 units to the network without having to install extra communication extension modules.

### Linear/Arc Interpolation Motion Control

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

### High-Speed Special Extension Module

Used together with the new special extension modules, DVP-EH2 is able to greatly shorten the data transmission time between MPU and its extension modules as well as enhancing the execution efficiency of the program.

# S Series MPU



## DVP-SS

- Suitable for basic applications
- Compact size
- Can run with special extension modules

### Specification & Performance

MPU points: 14  
 Max. I/O points: 238  
 Program capacity: 4K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol

### High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 10KHz.

### Supports PID Auto-tuning

After the operation is completed, the parameters will be saved automatically.

### Built-in 4-Group High-Speed Counter

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/2	20KHz/10KHz	1	20KHz	1	4KHz

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

## DVP-SA

- Large program capacity to enhance operation performance
- Best extensibility

### Specification & Performance

MPU points: 12  
 Max. I/O points: 236  
 Program capacity: 8K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol

### High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 50KHz (Y0) and 10KHz (Y1).

### Maximum 8 Special Modules Extendable

For analog I/O, temperature measurement, input point DIP switch, Profibus/DeviceNet communication module, single-axis motion control.

### Built-in High-Speed Counters

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/4	20KHz/10KHz	1	20KHz	1	4KHz/25KHz

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

## DVP-SX

- Built-in 2-channel analog input and 2-channel analog output
- Can run with 8 special extension modules

### Specification & Performance

MPU points: 10(4DI/2DO, 2AI/2AO)  
 Max. I/O points: 230  
 Program capacity: 8K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol

### High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 50KHz (Y0) and 10KHz (Y1).

### Built-in High-Speed Counters

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/4	20KHz/10KHz	1	20KHz	1/1	4KHz/25KHz

\*Bandwidth refers to the max. counting bandwidth of a single counter.

### Built-in Analog I/O

Analog Input		Analog Output	
Points	Resolution	Points	Resolution
2	12-Bit(V)/11-Bit(I)	2	12-Bit
Specification	-20 ~ 20mA or -10 ~ 10V	Specification	-20 ~ 20mA or -10 ~ 10V

## DVP-SC

- 100KHz high-speed pulse output and 100KHz pulse counting

### Specification & Performance

MPU points: 12  
 Max. I/O points: 236  
 Program capacity: 8K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol

### High-Speed Pulse Output

Supports 2-point (Y10, Y11) independent high-speed pulse output, with frequency of up to 100KHz (Total bandwidth: 130KHz).

### Supports Handy Position Control Instructions

By ZRN (zero return), DRVA (absolute position), and DRVI (relative position), DVP-SC is able to complete all kinds of motion controls by working with Delta servos.

### Built-in 6-Group High-Speed Counter

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/4/2	20KHz/10KHz/100KHz	1/1	20KHz/100KHz	1/1	4KHz/50KHz

\*Bandwidth refers to the max. counting bandwidth of a single counter.

# New MPU



## DVP-PM

- 2-axis linear/arc interpolation motion control
- Maximum pulse output frequency: 500KHz
- Compatible with G-Code/M-Code

### Specification & Performance

MPU points: 16  
 Max. I/O points: 512  
 Program capacity: 64K Steps  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol  
 Data register: 10,000 words  
 \*Latched

### 500KHz High-Speed Pulse Output

Built-in 2-group A, B phase differential signal output  
 X-axis pulse output: (FP0+, FP0-), (RP0+, RP0-)  
 Y-axis pulse output: (FP1+, Fp1-), (RP1+, RP1-)

### Supports MPG and multiple external signal inputs

The direct input of external signals are able to complete real-time feedback and motion control.

### Linear/Arc Interpolation Motion Control; Compatible with G-Code

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

Model	Spec
DVP20PM00D	

DC power supply
 Input(points)
 Output(points)
 Relay output

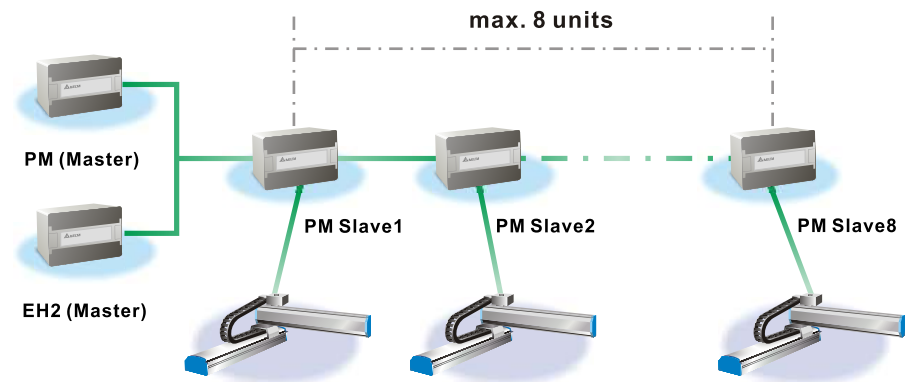
### Motion Control MPU, as well as Extension Module

Apart from serving as an MPU for motion control operating independently, DVP-PM can further be the extension module with motion control 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 only needs to give "start" and "stop" instructions. As an extension module, DVP-PM works independently and Does not affect the scan time of EH series MPU.

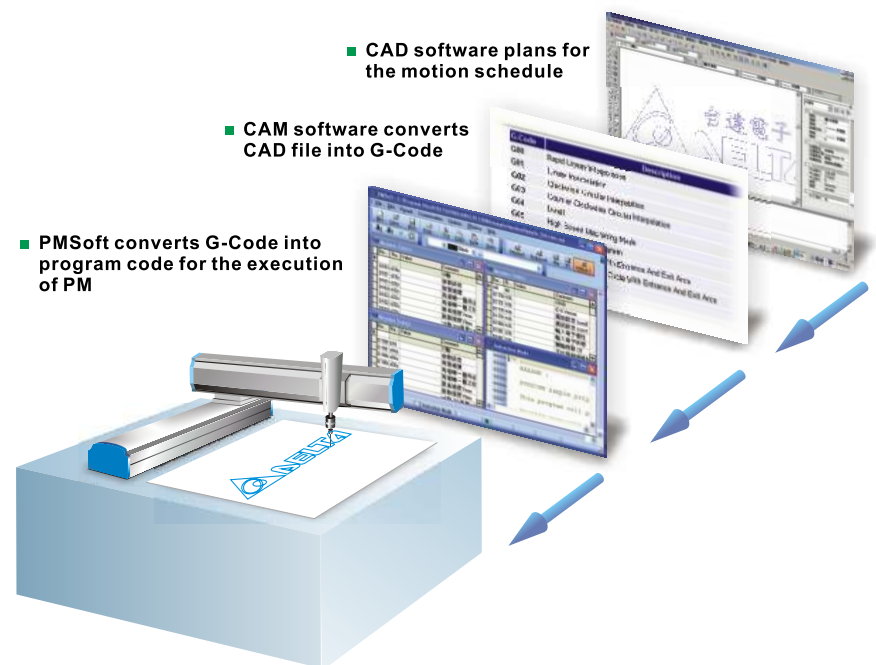
### Compatible with the Function Extension Modules of EH Series MPU

DVP-PM offers flexible applications while being compatible with the points/function extension modules of EH series MPU.

## Motion Control MPU , as well as Extension Module



## Compatible with G-Code/M-Code

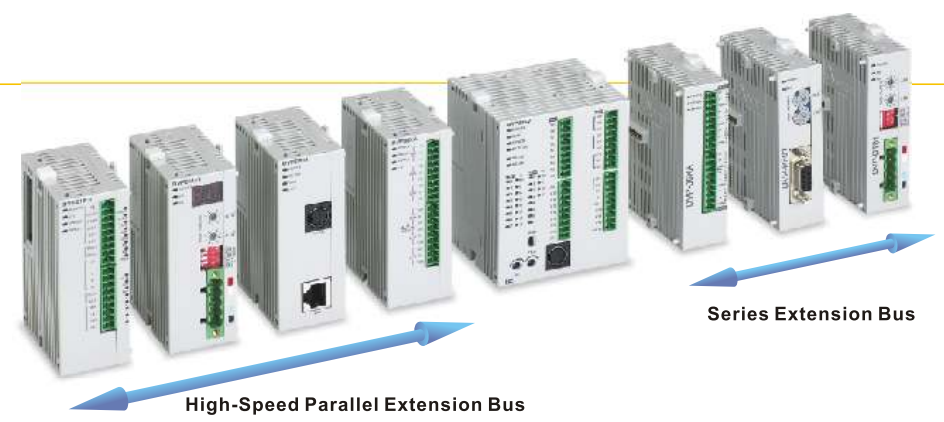


- CAD software plans for the motion schedule

- CAM software converts CAD file into G-Code

- PMSOFT converts G-Code into program code for the execution of PM

# New MPU



## DVP-SV

- Outstanding Operation Performance
- High Program Planning Capacity
- Left-side High-speed Function Extension Interface
- Linear/Arc Interpolation Motion Control

### Specification & Performance

MPU points: 28  
 Max. I/O points: 512  
 Program capacity: 16K Steps  
 Instruction execution speed: 0.24μs (for basic instruction)  
 Communication port: Built-in RS-232 and RS-485, compatible with MODBUS ASCII/RTU communication protocol  
 Data register: 10,000 words  
 File register: 10,000 words

### High-Speed Pulse Output

Supports 2-group (Y0, Y1) (Y2, Y3) A, B phase pulse output, with frequency of up to 200KHz.  
 Supports 2-point (Y4, Y6) high-speed pulse output, with frequency of up to 200KHz.

### Outstanding Operation Performance

CPU + ASIC dual processors support floating point operations. The maximum execution speed of basic instructions can reach up to 0.24μs

Model	Spec
DVP28SV11R	⊖DC ⊕I <sub>1</sub> ⊕I <sub>2</sub> ⊕R ⊕
DVP28SV11T	⊖DC ⊕I <sub>1</sub> ⊕I <sub>2</sub> ⊕T ⊕

⊖ DC power supply ⊕ Input(points) ⊕ Output(points)  
 ⊕ Transistor output ⊕ Relay output

### Left-side High-speed Function Extension Module

The parallel data transmission bus greatly enhances the efficiency of data exchange for real-time control. Special extension modules: Analog I/O, temperature measurement, single-axis motion control, DeviceNet Slave module, modem and Ethernet network module.

### Linear/Arc Interpolation Motion Control

The new handy point-to-point linear motion instruction (PPMR/PPMA) and arc interpolation motion instruction (CIMR/CIMA) allow users to enter only 4 parameters to complete the control.

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

Standard		Hardware High-Speed Counter					
		1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
6	10KHz	2/2	200KHz/20KHz	2/2	200KHz/20KHz	2/2	200KHz/20KHz

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

### High-Speed Parallel Extension Modules

#### Communication Modules

- DeviceNet Slave DVPDNET01-SL

- Ethernet DVPEN01-SL

- Modem DVPMDM-SL

#### Analog Function Extension

- Analog Input DVP04AD-SL

- Analog Output DVP04DA-SL

- Mixed Analog I/O DVP06XA-SL

#### Temperature Measurement

- Sensor: PT100 DVP04PT-SL

- Sensor: J, K Thermocouple DVP04TC-SL

#### Motion Control

- Single-Axis Position Control DVP01PU-SL

### Series Extension Modules

#### I/O Extension Modules

- Input Points Extension DVP08SM11N

- Output Points Extension DVP06SN11R DVP08SN11R/T

- Mixed I/O Extension DVP08SP11R/T DVP16SP11R/T

#### Analog Function Extension

- Analog Input DVP04AD-S DVP06AD-S

- Analog Output DVP04DA-S DVP02DA-S

- Mixed Analog I/O DVP06XA-S

#### Temperature Measurement

- Sensor: PT100 DVP04PT-S

- Sensor: J, K, R, S, T thermocouple DVP04TC-S

#### Communication Modules

- Profibus Slave DVPPF01-S

- DeviceNet Slave DVPDT01-S

#### Motion Control

- Single-Axis Position Control DVP01PU-S

#### Power Supply Modules

- DVPPS01 DVPPS02

# Extension

## DVP-EH2

**Small PLC with the strongest operation performance!**



- Maximum 512 points
- 200KHz high-speed pulse output
- New high-speed special extension modules
- Linear/arc interpolation motion control

### Function Cards

- Convert COM2 RS-485 into RS-232/422 interface
  - DVP-F232
  - DVP-F422
- Additional 3<sup>rd</sup> Communication Port
  - DVP-F232S
  - DVP-F485S
- Analog I/O
  - DVP-F2DA
  - DVP-F2AD
- Digital Input Points Extension
  - DVP-F4IP
- Transistor Output
  - DVP-F2OT
- Analog Input
  - DVP-F6VR
- Indot Doint DIP Switch
  - DVP-F8ID

### Connected With Other Devices



### Accessories

- Data Back-up Card
  - DVP-256FM (for special purpose)
  - DVP-PCC01 (for general purpose)
- Digital Display Panel
  - DVPDU01
- Handheld Programming Panel
  - DVPHPP
- Data Transmission Cable
  - DVPACAB2A30

Model Name	Specification
DVP16EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP16EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP20EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP20EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP32EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP32EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP40EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP40EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP48EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP48EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP64EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP64EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP80EH00R2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ
DVP80EH00T2	Ⓢ Ⓜ Ⓜ Ⓢ Ⓡ

Ⓢ AC power supply Ⓜ Input (points) Ⓜ Output (points) Ⓡ Relay output Ⓡ Transistor output

### I/O Extension Modules

- Input Points Extension
  - DVP08HM11N
  - DVP16HM11N
  - DVP32HP00R/T
  - DVP48HP00R/T
- Output Points Extension
  - DVP08HN11R/T
  - DVP32HN00R/T
- Mixed I/O Extension
  - DVP08HP11R/T
  - DVP16HP11R/T

### High-Speed Extension Modules

- Analog Function Extension
  - Analog Input
    - DVP04AD-H2
    - V: 14-Bit
    - I: 13-Bit
  - Analog Output
    - DVP04DA-H2
    - V: 12-Bit
    - I: 12-Bit
  - Mixed Analog I/O
    - 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 thermocouple
    - DVP04TC-H2
- Motion Control
  - Single-Axis Position Control
    - DVP01PU-H2

# Extension



## Most Cost-Effective Solution to Sequential Control!

## Compact Appearance; Flexible Extension!

### DVP-ES

256 points  
Pulse Output 10KHz



Model Name	Specification
DVP14ES00R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP14ES00T2	Ⓢ Ⓜ Ⓠ Ⓣ
DVP24ES00R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP24ES00T2	Ⓢ Ⓜ Ⓠ Ⓣ
DVP24ES11R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP32ES00R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP32ES00T2	Ⓢ Ⓜ Ⓠ Ⓣ
DVP40ES00R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP40ES00T2	Ⓢ Ⓜ Ⓠ Ⓣ
DVP60ES00R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP60ES00T2	Ⓢ Ⓜ Ⓠ Ⓣ

Ⓢ AC power supply Ⓜ Input (points) Ⓠ Output (points)  
Ⓡ DC power supply Ⓣ Relay output Ⓡ Transistor output

### DVP-EX

256 points  
Pulse Output 10KHz  
Analog Input/Output



Model Name	Specification
DVP20EX00R2	Ⓢ 8DI, 4AI/6DO, 2AO Ⓡ
DVP20EX00T2	Ⓢ 8DI, 4AI/6DO, 2AO Ⓣ
DVP20EX11R2	Ⓢ 8DI, 4AI/6DO, 2AO Ⓡ

Ⓢ AC power supply Ⓜ Input (points) Ⓠ Output (points)  
Ⓡ DC power supply Ⓣ Relay output Ⓡ Transistor output

### DVP-SS

The best micro-MPU for basic applications



Model	Spec
DVP14SS11R2	Ⓢ Ⓜ Ⓠ Ⓡ
DVP14SS11T2	Ⓢ Ⓜ Ⓠ Ⓣ

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

### DVP-SX

Built-in analog input/output



Model	Spec
DVP10SX11R	Ⓢ Ⓡ Ⓠ Ⓡ
DVP10SX11T	Ⓢ Ⓡ Ⓠ Ⓣ

Ⓢ DC power supply Ⓡ Transistor output  
Ⓡ Relay output

### DVP-SA

Advanced performance  
8K steps program capacity



Model	Spec
DVP12SA11R	Ⓢ Ⓡ Ⓠ Ⓡ
DVP12SA11T	Ⓢ Ⓡ Ⓠ Ⓣ

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

### DVP-SC

Max. 100KHz pulse output  
Max. 100KHz pulse counting



Model	Spec
DVP12SC11R	Ⓢ Ⓡ Ⓠ Ⓡ
DVP12SC11T	Ⓢ Ⓡ Ⓠ Ⓣ

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

#### I/O Extension Modules

■ Input Points Extension  
DVP08XM11N  
DVP16XM11N



■ Output Points Extension  
DVP08XN11R/T  
DVP16XN00R/T  
DVP24XN11R/T  
DVP24XN00R/T



■ Mixed I/O Extension  
DVP08XP11R/T  
DVP24XP11R/T  
DVP24XP00R  
DVP32XP00R/T



#### I/O Extension Modules

■ Input Points Extension  
DVP08SM11N



■ Output Points Extension  
DVP06SN11R  
DVP08SN11R/T



■ Mixed I/O Extension  
DVP08SP11R/T  
DVP16SP11R/T



#### Connected With Other Devices

HMI



TP



Servo



VFD



#### Accessories

■ Data Back-up Card  
DVP-PCC01



■ Handheld Programming Panel  
DVP-HPP



■ Data Transmission Cable  
DVPACAB2A30(3M)



#### Analog Function Extension

■ Analog Input Extension  
DVP04AD-S  
V: 14-Bit  
I: 13-Bit



■ Analog Output Extension  
DVP04DA-S  
DVP02DA-S  
V: 12-Bit  
I: 12-Bit



■ Mixed Analog I/O  
DVP06XA-S  
Input 4CH / Output 2CH  
V: 11-Bit V: 12-Bit  
I: 11-Bit I: 12-Bit



#### Temperature Measurement

■ Sensor: PT100  
DVP04PT-S



■ Sensor: J, K, R, S, T  
Thermocouple  
DVP04TC-S



#### Communication Modules

■ Profibus Slave  
DVPPF01-S



■ DeviceNet Slave  
DVPDT01-S



#### Motion Control

■ Single-Axis Position Control  
DVP01PU-S



#### Power Supply Module

DVPPS01  
DVPPS02



# Functions & Electrical Specifications



## Functions

## Electrical Specifications

Item		ES	EX	SS	SA	SX	SC	EH2	SV	PM
Power Supply	AC	✓	✓					✓		✓
	DC	✓	✓	✓	✓	✓	✓		✓	
I/O Points	256	✓	✓	✓	✓	✓	✓			
	512							✓	✓	✓
Program Capacity	4K steps	✓	✓	✓						
	8K steps				✓	✓	✓			
	16K Steps							✓	✓	
	64K Steps									✓
Output Type	Relay	✓	✓	✓	✓	✓	✓	✓	✓	
	Transistor	✓	✓	✓	✓	✓	✓	✓	✓	
	Differential signal									✓
Special Functions	RTC				✓	✓	✓	✓	✓	
	FLASH memory							✓	✓	✓
	Supports special extension module			✓	✓	✓	✓	✓	✓	✓
	Supports function extension card							✓	✓	✓
	Supports high speed extension module							✓	✓	✓
	Built-in AI/AO		✓			✓				
	2-axes linear/arc interpolation						✓	✓	✓	✓
	Supports pulse position instruction						✓	✓	✓	✓
	MPG signal input									✓
	Compatible with G-Code/M-Code									✓
Bandwidth of High-Speed Counting (1 phase 1)	20KHz	✓	✓	✓	✓	✓				
	100KHz						✓			
	200KHz							✓	✓	✓
Bandwidth of High-Speed Pulse Output	10KHz	✓	✓	✓						
	50KHz				✓	✓				
	100KHz						✓			
	200KHz							✓	✓	
	500KHz									✓
Communication	MODBUS Series Communication Port	COM1 RS-232	✓	✓	✓	✓	✓	✓	✓	✓
		COM2 RS-485	✓	✓	✓	✓	✓	✓	✓	✓
		3 <sup>rd</sup> communication port							✓	
	PLC EASY LINK Master Station				✓	✓	✓	✓	✓	
	Profibus Link			✓	✓	✓	✓	✓	✓	
	DeviceNet Link			✓	✓	✓	✓	✓	✓	
Modem Link									✓	
Industrial Ethernet Network									✓	

### General Electrical Specifications

	AC	DC
Power Supply Voltage	100 ~ 240VAC (-15% ~ 10%), 50/60Hz ± 5%	24VDC (-15% ~ 20%)
Fuse Capacity	2A/250VAC	2A/250VAC
Spike Voltage Durability	1500VAC (Primary-secondary); 1500VAC (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 250V RS: 26MHz ~ 1GHz, 10V/m	
Earth	The diameter of grounding wire shall not be less than that of the wiring terminal of the power. (When many PLCs are in use at the same time, please make sure every PLC is properly grounded.)	
Operation/Storage	Storage: -40°C ~ 70°C (temperature); 5 ~ 95% (humidity) Operation: 0°C ~ 55°C (temperature); 50 ~ 95% (humidity); pollution degree 2	

### Input Point Specifications

	Single Common Port Input		
	General Speed(10KHz)	Medium Speed(20KHz)	High Speed(100KHz/200KHz)
Input Signal Type	SINK / SOURCE		
Input Signal Voltage	24VDC ± 10% (5mA)		
Response time	0 ~ 15ms adjustable		
ES/EX	0 ~ 20ms adjustable		
SS/SA/SX	0 ~ 20ms adjustable		
SC	0 ~ 20ms adjustable		
EH2/SV	0 ~ 60ms adjustable		
Motion Level	OFF->ON	>16.5VDC	>18.5VDC
	ON->OFF	<8VDC	<8VDC

### Output Point Specifications

	Relay (R)	Transistor (T)	
		General Speed	High Speed
Max. Exchange (Working) Frequency	Load ON/OFF Control	10KHz	50KHz/100KHz/200KHz
Current Specification	2A	0.3A/1 point@40°C	<1KHz, 0.3A/1 point@40°C ≥1KHz, 30mA/1 point@40°C
ES/EX	1.5A		
SS	1.5A		
SA/SX/SC	1.5A		
EH2/SV	2A		
Voltage Specification	250VAC/30VDC	30VDC	
Response Time	10ms	OFF->ON: 20μs ON->OFF: 30μs	EH2/SV 0.5μs SC 1μs SA/SX 2μs

### DVPACAB2A30 PIN Definition

