



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

Automation for a Changing World

Delta Programmable Logic Controller DVP Series



reddot design award
winner 2010

www.deltaww.com



DELTA
Smarter. Greener. Together.

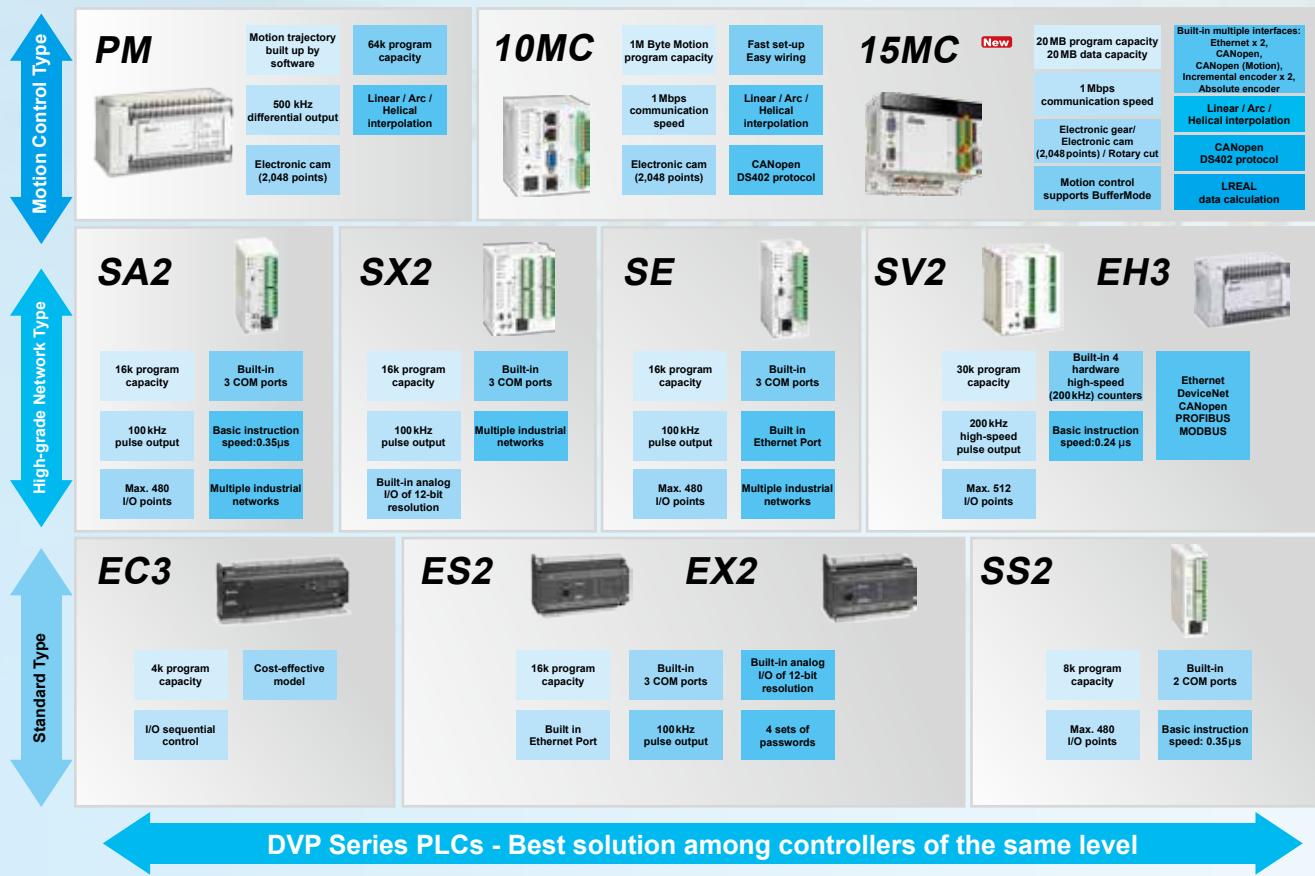
The Perfect Small PLC Revolution!

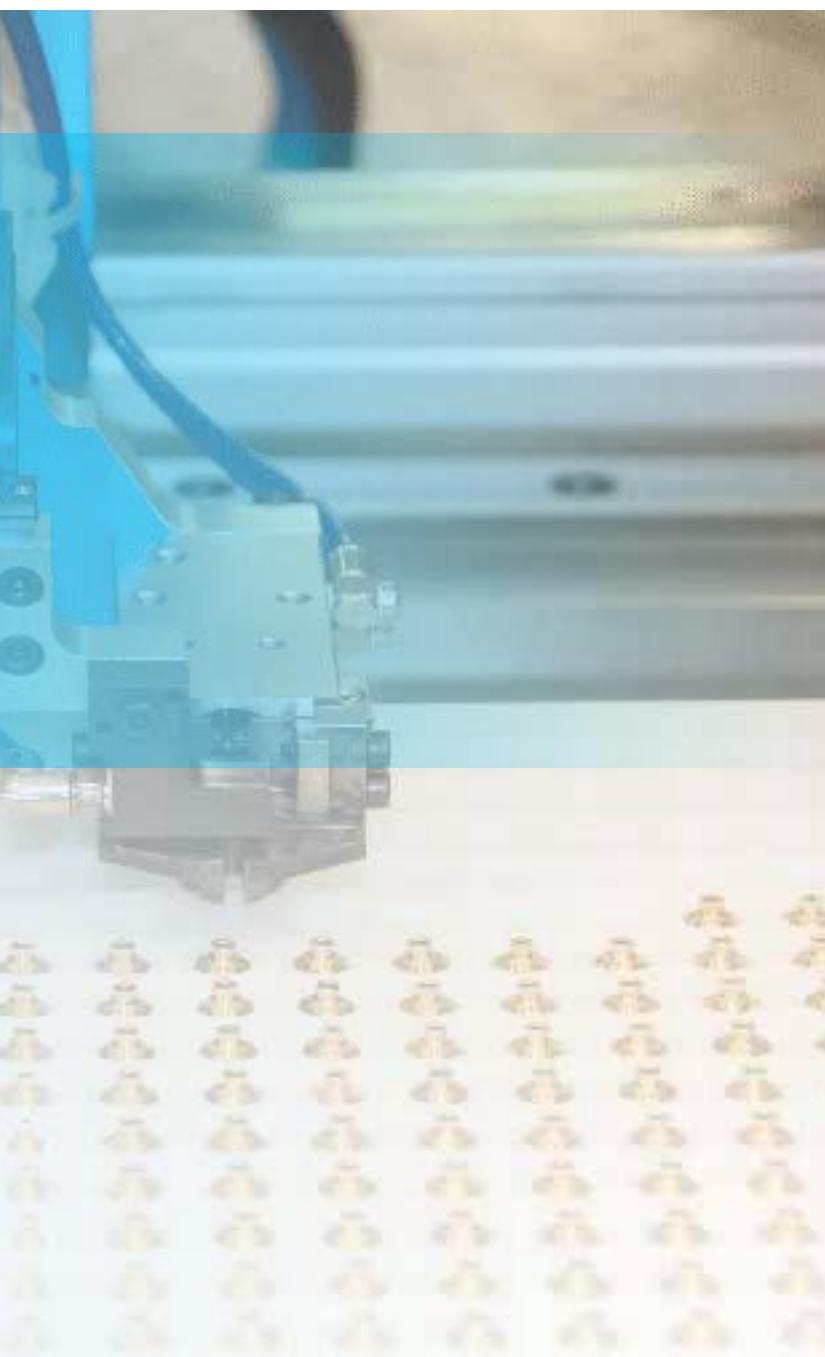
After launching our first DVP series PLCs for industrial automation applications, Delta has been devoted to delivering more innovative products that satisfy customers' needs and meet the requirements of a wide variety of applications.

Delta PLCs offer 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 industrial automation products to deliver total solutions for various field applications.

As your most reliable partner, Delta is dedicated to creating value for our customers.





Contents

| | Page |
|---|-----------|
| Standard PLC DVP-E Series | 5 |
| Slim PLC DVP-S Series | 8 |
| General Motion Controller DVP-PM Series | 11 |
| Multi-axis Motion Controller DVP-MC Series | 13 |
| DVP Series Extension Modules | 19 |
| Electrical Specifications | 24 |
| Dimensions | 25 |
| PLC Editing Software ISPSofT | 29 |
| Touch / Text Panel HMI with Built-in PLC TP Series | 31 |
| DVP Series Model Name Instruction | 35 |
| DVP Series Function Overview | 36 |
| Ordering Information | 37 |



NEW

Built-in Ethernet for Advanced Applications



Standard PLC **DVP-ES2-E**

- ▶ Built-in 20 / 32 / 40 / 60 I/O points
- ▶ Built-in Ethernet port that supports MODBUS TCP and EtherNet/IP (slave)

Increased Built-in I/O Points to Enhance Competitiveness for Solutions

PLCs **DVP-28SS2** **DVP-28SA2**

- ▶ 16DI + 12DO
- ▶ Compatible with DVP-S Series extension modules (right-side)



Complete Interface Design and 24-axis Motion Control



24-axis Motion Controller **DVP-15MC**

- ▶ 1GHz CPU
- ▶ Program capacity + data capacity = 20MB + 20MB
- ▶ Up to 24 real axes control

Built-in Interface

16DI
8DO

RS-232

RS485

Ethernet *2

Memory card:SD

CANopen
DS301

CANopen
DS402

Incremental
encoder
interface*2

SSI absolute
encoder
interface

Motion Function

Multi-axis
Gear / Cam

Linear / Arc
/ Helical
interpolation

Jerk

G-Code

Buffer
Mode



red^{dot} design award
winner 2010

Basic PLC DVP-EC3

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

- ▶ Built-in I/O: 10/14/16/20/24/30/32/40/48/60
 - ▶ Program capacity: 4 k steps
 - ▶ COM port: Built-in RS-232 & RS-485 ports (10/14-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
- (Hardware version V8.00 and above support this function)

| Built-in High-Speed Counters | | | | | |
|------------------------------|-------------|------------------|-----------|------------------|-----------|
| 1-phase 1 input | | 1-phase 2 inputs | | 2-phase 2 inputs | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 2/2 | 20kHz/10kHz | 1 | 20kHz | 1 | 4kHz |

Standard PLC / Analog I/O PLC DVP-ES2/EX2

Standard PLCs with integrated communication and highly efficient processing ability for your control systems

- ▶ 32-bit CPU for high-speed processing
- ▶ Standard PLC DVP-ES2 Series: 6/20/24/32/40/60 I/O points for a variety of applications
- ▶ Analog I/O PLC DVP-EX2:
 - Built-in 12-bit 4 analog inputs / 2 analog output; and 14-bit analog I/O extension module
 - Built-in PID auto tuning function for a complete analog control solution
- ▶ Built-in 1 RS-232 and 2 RS-485 ports
- ▶ Program capacity: 16k steps
- ▶ Data register: 10k words
- ▶ Execution speed: LD: 0.35μs, MOV: 3.4μs
- ▶ RTC function and file register (5k words) (hardware version 2.0 and above)
- ▶ Highly efficient processing ability: 1k steps of programs can be completed within 1ms
- ▶ Max. 100 kHz pulse control; specific motion control instructions (mark/masking and instant frequency changing) available for multi-axis 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 | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 2/6 | 100kHz/10kHz | 2 | 100kHz | 1/3 | 15kHz/5kHz |



Standard PLC with built-in CANopen interface

DVP32ES200RC/TC

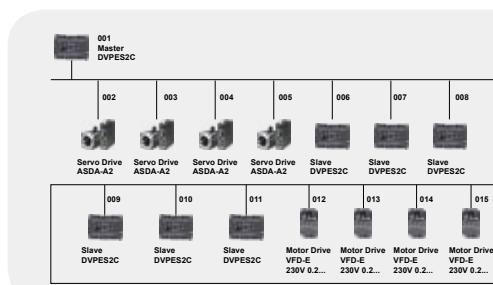
Boosts productivity with high execution speed and built-in CANopen interface, and specializes in noise-immunity and easy wiring

- ▶ Built-in 1Mbps CANopen interface; COM3 supports standard CANopen DS301 protocol
- ▶ Versatile communication types: PDO, SDO, synchronous (SYNC), Emergency, NMT and many more
- ▶ 1Mbps high-speed transmission for large data:
 - Max. PDO transmission: up to 390 bytes
 - Max. PDO receiving: up to 390 bytes
- ▶ Ability to connect with 16 slaves via CANopen

Fast processing speed



High-speed industrial network: CANopen



Standard PLC with built-in Ethernet interface

DVP-ES2-E

Higher communication speed and easier external connection with built-in Ethernet

- ▶ Built-in I/O: 20/32/40/60
- ▶ Communication speed: 100M
- ▶ Supports MODBUS and EtherNet/IP (slave)

Temperature / Analog I/O PLC

DVP30EX200R/T

Integrated controller for temperature control and analog input

- ▶ Built-in 16-bit 3 analog inputs / 12-bit 1 analog output
- ▶ Built-in PID auto tuning function to offer a complete analog control solution
- ▶ 3 analog inputs for Pt / Ni temperature input, precision of 0.1 degree can be readily achieved

| Built-in Ethernet | | | |
|--------------------------------------|-------------------------|--------------------------------------|------------------|
| MODBUS | | EtherNet/IP | |
| Number of Connections | Server: 16 Client: 8 | Number of Connections | TCP: 4 CIP: 8 |
| Max. Data Exchange (each connection) | 100 words | Max. Data Exchange (each connection) | 250 words |
| | | RPI | 5~1,000 ms |
| | | PPS | 1,000 PPI |

| Built-in Analog I/O in DVP-EX2 Model | | | |
|---------------------------------------|----------------------|---------------|--------------------|
| Analog Input | | Analog Output | |
| Channels | 3 | Channels | 1 |
| Resolution | 16-bit | Resolution | 12-bit |
| Spec. | -20~20 mA or -10~10V | Spec. | 0~20 mA or -10~10V |
| Built-in Temperature Control Function | | | |
| Sensor | Pt100/Pt1000 | Ni100/Ni1000 | |
| Temperature Range | -200°C~800°C | -100°C~180°C | |
| Value Range | -2,000~8,000 | -1,000~1,800 | |

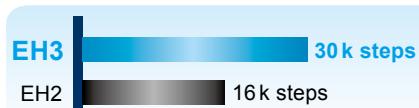


High Performance PLC

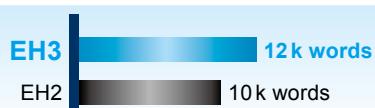
DVP-EH3

High-end model of Delta's DVP-E Series PLC with large program capacity and data registers for demanding and complex applications

Program capacity



Data register



Execution speed



Excellent Motion Control

- ▶ High-speed pulse output: 4 axes of 200 kHz pulse output (DVP32/40/48/64/80EH00T3)
- ▶ Supports max. 4 hardware 200 kHz high-speed counters
- ▶ Various motion control instructions to achieve high-speed and high-precision positioning control for labeling machines, packaging machines, printing machines and more applications
- ▶ Linear / arc interpolation motion control function
- ▶ Provides up to 16 external interrupt pointers

Complete Program Protection

- ▶ Auto backup function prevents program and data loss even when the battery runs out
- ▶ Secondary backup function saves an extra copy of programs and data to enhance program safety
- ▶ Up to 4 levels of password protection protects your source programs and intellectual property

Outstanding Operation Performance

- ▶ 32-bit CPU + ASIC dual processors support floating point operations
- ▶ Max. execution speed of basic instructions: 0.24 μ s

Flexible Function Extension Modules & Cards

- ▶ Multiple selections of extension modules and function cards: 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 users to link up a max. of 32 units to the network without extra communication extension modules

| 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 | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 8 | 10kHz | 4 | 200 kHz | 4 | 200 kHz | 4 | 200 kHz |

The specifications of high-speed input and output on this page are applicable only for DVP40EH00R3 / DVP40EH00T3.

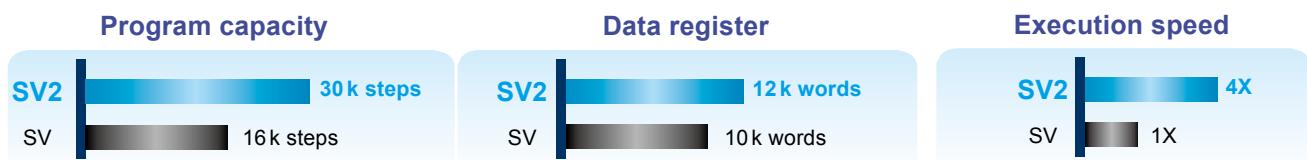
Refer to the I/O specifications table on page 20 for more information on other models.



High Performance Slim PLC

DVP-SV2

High-end model of the DVP-S Series with larger program capacities and data registers for more demanding and complex applications



Excellent Motion Control

- ▶ High-speed pulse output: 4 axes of 200 kHz pulse output
- ▶ Supports 4 hardware 200 kHz high speed counters
- ▶ Various motion control instructions to achieve high-speed and high-precision positioning control for labeling machines, packaging machines, printing machines and more applications
- ▶ Linear / arc interpolation motion control function
- ▶ Provides up to 16 external interrupt pointers

Complete Program Protection

- ▶ Auto backup function prevents program and data loss even when the battery runs out
- ▶ Secondary backup function saves an extra copy of programs and data to enhance program safety
- ▶ Up to 4 levels of password protection protects your source programs and intellectual property

Supports DVP-S Series modules (left-side and right-side); additional new Ethernet communication command (ETHRW)

Outstanding Operation Performance

- ▶ 32-bit CPU + ASIC dual processors support floating point operations
- ▶ Max. execution speed of basic instructions: 0.24 μ s

The DVP-24SV2 model has a built-in 2AI (12-bit) with Y10/Y12 of 10kHz output.

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 | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 8 | 10kHz | 4 | 200 kHz | 4 | 200 kHz | 4 | 200 kHz |

The X11 / X15 have been upgraded to 200kHz since 2016 October



Standard Slim PLC DVP-SS2

Economic and compact model

- ▶ 32-bit CPU for high-speed processing
- ▶ Max. I/O: 480 points
- ▶ Program capacity: 8k steps
- ▶ Data register: 5k words
- ▶ Execution speed: LD: 0.35 μ s, MOV: 3.4 μ s
- ▶ Built-in RS-232 and RS-485 ports (Master/Slave)
- ▶ Supports standard MODBUS ASCII/RTU protocol and PLC Link function

Motion Control Functions

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

Advanced Slim PLC DVP-SA2

Advanced model supporting 2-axis interpolation

- ▶ 32-bit CPU for high-speed processing
- ▶ Program capacity: 16 k steps
- ▶ Data register: 10 k words
- ▶ Execution speed: LD: 0.35 μ s, MOV: 3.4 μ s
- ▶ 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; RTC function operates for 15 days after power off
- ▶ Supports DVP-S Series modules (left-side and right-side)

Motion Control Functions

- ▶ 4 points of high-speed pulse output: 100 kHz/2 points, 10 kHz/2 points
- ▶ 8 points of high-speed pulse input: 100 kHz/2 points, 10 kHz/6 points, 1 set of A/B phase 50 kHz
- ▶ Supports 2-axis linear and arc interpolation

| Built-in High-Speed Counters | | | | | |
|------------------------------|-------------------|------------------|-----------|------------------|------------------|
| 1-phase 1 input | | 1-phase 2 inputs | | 2-phase 2 inputs | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 4/4 | 20 kHz/ 10 kHz | 2 | 20 kHz | 2/2 | 10 kHz/ 5 kHz |

| Built-in High-Speed Counters | | | | | |
|------------------------------|----------------|------------------|-----------|------------------|--------------|
| 1-phase 1 input | | 1-phase 2 inputs | | 2-phase 2 inputs | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 2/6 | 100 kHz/10 kHz | 2 | 100 kHz | 1/3 | 50 kHz/5 kHz |



Analog I/O Slim PLC DVP-SX2

Analog model with highly efficient PID control function

- ▶ 32-bit CPU for high-speed processing
- ▶ Program capacity: 16 k steps
- ▶ Data register: 10 k words
- ▶ Execution speed: LD: 0.35 μ s, MOV: 3.4 μ s
- ▶ Built-in 4 analog inputs / 2 analog outputs
- ▶ Built-in mini USB, RS-232 and RS-485 ports (Master/Slave)
- ▶ Supports standard MODBUS ASCII/RTU protocol and PLC Link function
- ▶ PID Auto Tuning function for highly efficient PID control
- ▶ No battery required; RTC function operates for at least one week after power off (hardware version 2.0 and above)
- ▶ Supports DVP-S Series modules (left-side and right-side)

Motion Control Functions

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

| Built-in Analog I/O | | | |
|---------------------|----------------------------------|---------------|---------------------------------|
| Analog Input | | Analog Output | |
| Channels | 4 | Channels | 2 |
| Resolution | 12-bit | Resolution | 12-bit |
| Spec. | -20~20 mA or -10~10 V or 4~20 mA | Spec. | 0~20 mA or -10V~10 V or 4~20 mA |

Network Type Advanced Slim PLC DVP-SE

Complete network communication functions for advanced industrial applications

- ▶ 32-bit CPU for high-speed processing
- ▶ Program capacity: 16 k steps
- ▶ Data register: 12 k words
- ▶ Execution speed: LD: 0.64 μ s, MOV: 2 μ s
- ▶ Built-in mini USB port, RS-485 port*2 and Ethernet port that supports MODBUS TCP and EtherNet/IP Slave (adapter)
- ▶ IP Filter functions as firewall for first line protection against malware and network threats
- ▶ Supports DVP-S Series modules (left-side and right-side) (DVP26SE only supports right-side modules)
- ▶ No battery required; RTC function operates for 15 days after power off

Motion Control Functions

- ▶ 4 points of high-speed pulse output: 100 kHz / 2 points, 10 kHz / 2 points
- ▶ 8 points of high-speed pulse input: 100 kHz / 2 points, 10 kHz / 6 points, 1 set of A / B phase 50 kHz
- ▶ Supports 2-axis linear and arc interpolation

| Built-in High-Speed Counters | | | | | |
|------------------------------|--------------------|------------------|-----------|------------------|------------------|
| 1-phase 1 input | | 1-phase 2 inputs | | 2-phase 2 inputs | |
| Counters | Bandwidth | Counters | Bandwidth | Counters | Bandwidth |
| 2/6 | 100 kHz/ 10 kHz | 2 | 100 kHz | 1/3 | 50 kHz/ 5 kHz |

General Motion Controller

DVP-PM



Standard Motion Controller

DVP10PM00M

Standard motion controller for general applications

- ▶ Built-in 24 I/O points. Max. 256 I/O points
- ▶ Program capacity: 64 k steps
- ▶ Data register: 10 k words
- ▶ Execution speed LD: 0.13 μ s, MOV: 2.1 μ s
- ▶ Built-in RS-232 and RS-485 ports
- ▶ 2 / 3 / 4 / 5 / 6 axes linear interpolation motion control
- ▶ Highly accurate PWM 200 kHz output, resolution 0.3%
- ▶ 8 groups of high-speed captures (mark correction, frequency measurement), comparative output, Mark / Mask function (for bag making)
- ▶ Supports standard MODBUS ASCII / RTU protocol

Motion Control Functions

- ▶ High-speed pulse output: built-in 6 sets of A/B phase pulse outputs
- ▶ 2 sets of 200 kHz output, 4 sets of 1 MHz output
- ▶ 6 sets of high-speed counters and hardware digital filter for counting
- ▶ Supports MPG inputs
- ▶ Single-axis motion control function (supports MPG, single-speed and two-speed positioning)
- ▶ Electronic gear function

Advanced Motion Controller

DVP20PM00D / M / DT

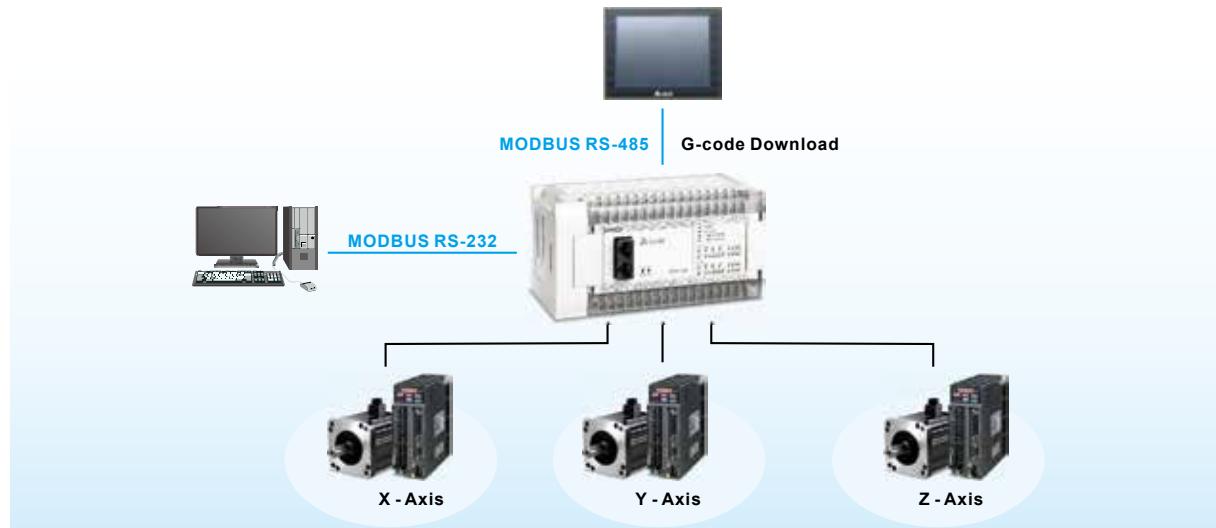
Excellent as motion controllers or extension modules and supports advanced motion control functions

- ▶ Built-in 16 I/O points. Max. 512 I/O points
- ▶ Program capacity: 64 k steps
- ▶ Data register: 10 k words
- ▶ Compatible with G-code / M-Code
- ▶ 3-axis linear/arc/helical interpolation
- ▶ Supports electronic cam (2,048 points) function for flying shear and rotary cut applications
- ▶ All models can be applied as motion controllers or extension modules
- ▶ Built-in RS-232 and RS-485 ports, and 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: 500 kHz
- ▶ Supports MPG inputs
- ▶ Single-axis motion control function (supports MPG, single-speed and two-speed positioning)
- ▶ Electronic gear function

General Motion Controller DVP-PM Series: Pulse-train communication



| Function Cards for DVP-PM | | |
|---------------------------|--|--|
| Model Name | Specifications | Features |
| DVP-FPMC | Ethernet/CANopen communication card *Supports DVP-EH2 function cards: DVP-F2AD, DVP-F2DA, DVP-F232S, DVP-F485S | <ul style="list-style-type: none"> 1. Complies with CANopen CiA301 V4.0.2 protocol. 2. Supports CANopen CiA402 V2.0 synchronous axes, 126 asynchronous axes. 3. Provides high-speed program upload/download via Ethernet. |

Programming Software for DVP-PM Series: PMSoft

The programming software for G-Code editing, motion path simulation, positioning route planning and electronic cam setup

The screenshot shows the PMSoft software interface with several windows and toolbars. On the left, the 'System Information' window displays a tree view of project components: Program, Main FBs, Instruction, XYChart, MonitorTable_Xaxis, MonitorTable_Yaxis, MonitorTable_Zaxis, Symbols Allocation, Global Symbols, Function Blocks, Libraries, Device Comments, DVP-FPMC, CAM Chart, and PEP Setting. The 'Function Block' window shows a ladder logic diagram for an 'Axis_Scan' function block. The 'Comprehensive Monitoring' window shows a graph of position over time. The 'Motion Network Function Block' window shows a table of block settings. The 'Electronic Cam' window shows a table of cam parameters. Callout boxes point from the text descriptions to their corresponding software features.

Variable Declaration
Separate from the program. The corresponding physical I/O point of the variable is defined only after the program is compiled. Users do not need to modify the program.

Function Block
• A completed project can be divided into many function blocks.
• Every function block can be used repeatedly, and the import / export function makes the programming more convenient.

Comprehensive Monitoring
The "program monitoring" and "device monitoring" allow users to keep track of program operation.

Motion Network Function Block
PLCopen Function Block allows users to easily use motion control functions

Electronic Cam
Electronic cam editing

Multi-axis Motion Controller

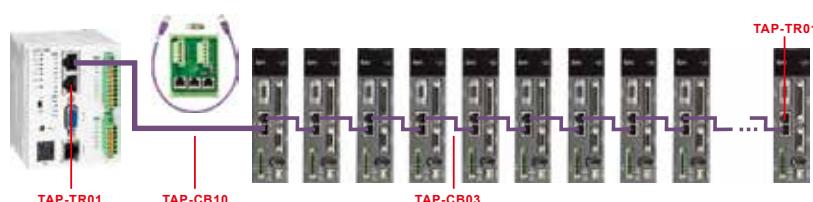
DVP-MC

16-axis Motion Controller

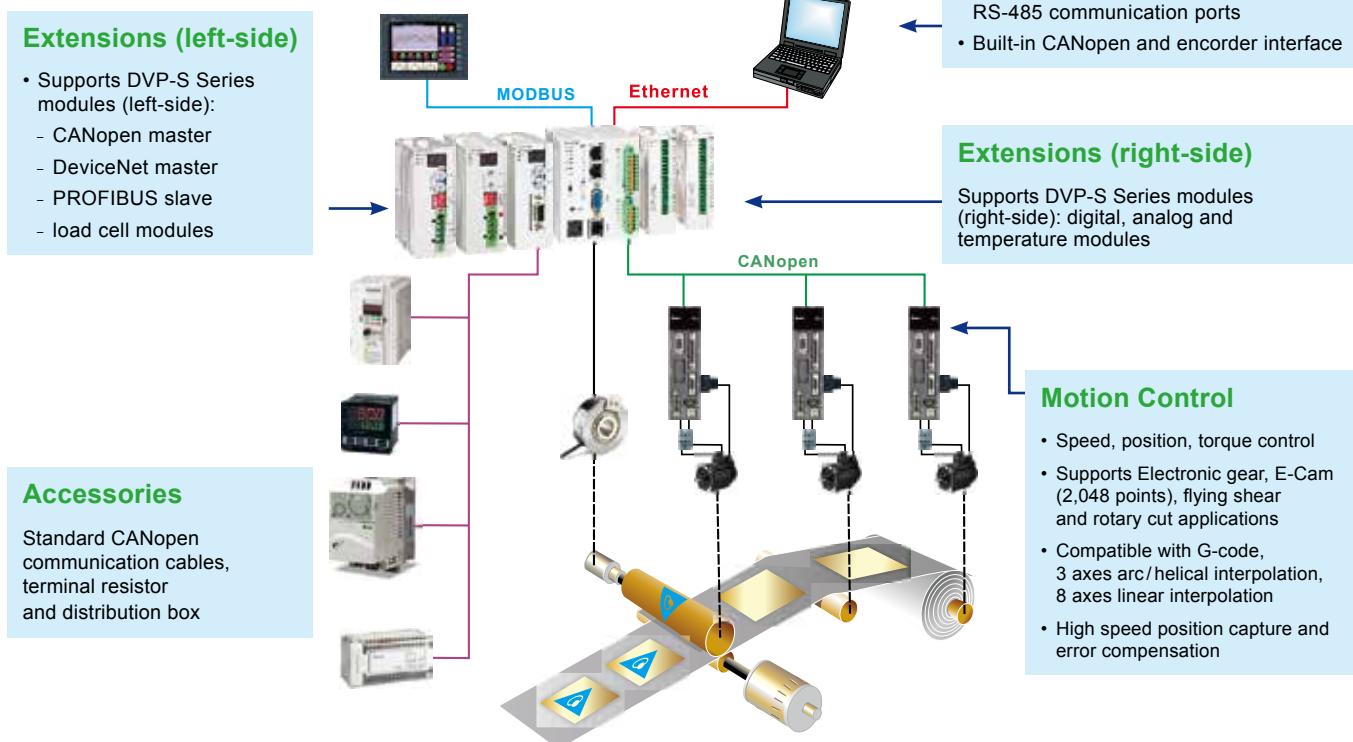
DVP10MC11T

Perfect controller to offer highly stable multi-axis motion control solutions through CANopen communication

- ▶ Built-in 12 I/O points
(8 sets of high-speed inputs,
4 sets of high-speed outputs)
- ▶ Up to 16 axes synchronous control through
CANopen communication
- ▶ Synchronization time: 4 axes in 2ms / 8 axes in
4ms
- ▶ Built-in motion control instructions of electronic
cam, flying shear, rotary cut for easy operation
- ▶ High precision control with interpolation function



System Control Architecture



| CANopen Accessories | | |
|---------------------|----------------------------|--|
| Model Name | Specifications | Features |
| UC-CMCXXX-01A | CANopen sub-line | RJ45 connector for both ends |
| UC-DN01Z-01A/02A | CANopen main-line/sub-line | AWG18/AWG24 CANopen cables for long distance communication via CANopen |
| TAP-CN01/02/03 | Distribution box | Built-in terminal resistor 120Ω |
| TAP-TR01 | Terminal resistor | Terminal resistor 120Ω |

24-axis Motion Controller

DVP15MC11T New

The DVP-MC Series is a multi-axis motion controller designed for the CANopen network architecture. It supports CANopen DS301 and DSP402 with built-in motion control instructions (BufferMode and Jerk) for flexible configuration and fast project development. DVP15MC11T controls up to 24 real axes via Motion port. It also supports single axis motion control instructions such as speed, position, torque, homing, position setup and multi-axis motion control instructions such as electronic gear, electronic cam (E-Cam), rotatory cut and G-code.

DVP15MC11T features multiple built-in communication interfaces, and can be easily connected to other equipment without additional communication modules. It also provides high-speed and reliable motion control via CANopen for printing, packaging, wire cutting, robots and other automation control industries.

Motion Control

- Up to 24 real axes control (virtual axis no.: 1 ~ 32, can't be repetitive with real axis no.)
- Built-in motion control instructions and easy to use
- Supports encoder axis and virtual axis
- Single axis motion control instructions: speed, torque, homing, and position setup
- Application instructions: electronic gear, E-Cam, and rotary cut
- G-code: 8 axes linear/arc/helical interpolation
- Coordinates motion control instructions

Performance

- 1 GHZ high-speed floating point operation
- High-precision computing: supports LREAL (Double-precision floating-point format)
- Synchronization time: 4 axes in 2 ms/8 axes in 4 ms
- Program capacity: 20 MB
- Data capacity: 20 MB

External Interfaces

- 1 CANopen port as host or slave station
- 1 CANopen (Motion) communication port for motion control
- 16 high-speed inputs/8 high-speed outputs
- 2 incremental encoder interfaces
- 1 SSI absolute encoder interface
- 2 Ethernet ports
- 1 SD card slot
- 1 RS-232 port and 1 RS-485 port
- Extension:
 - Left-side: supports up to 8 DVP-S Series modules (master/slave/load cell modules)
 - Right-side: compatible with DVP-S Series modules (240 I/O, 8 special modules)

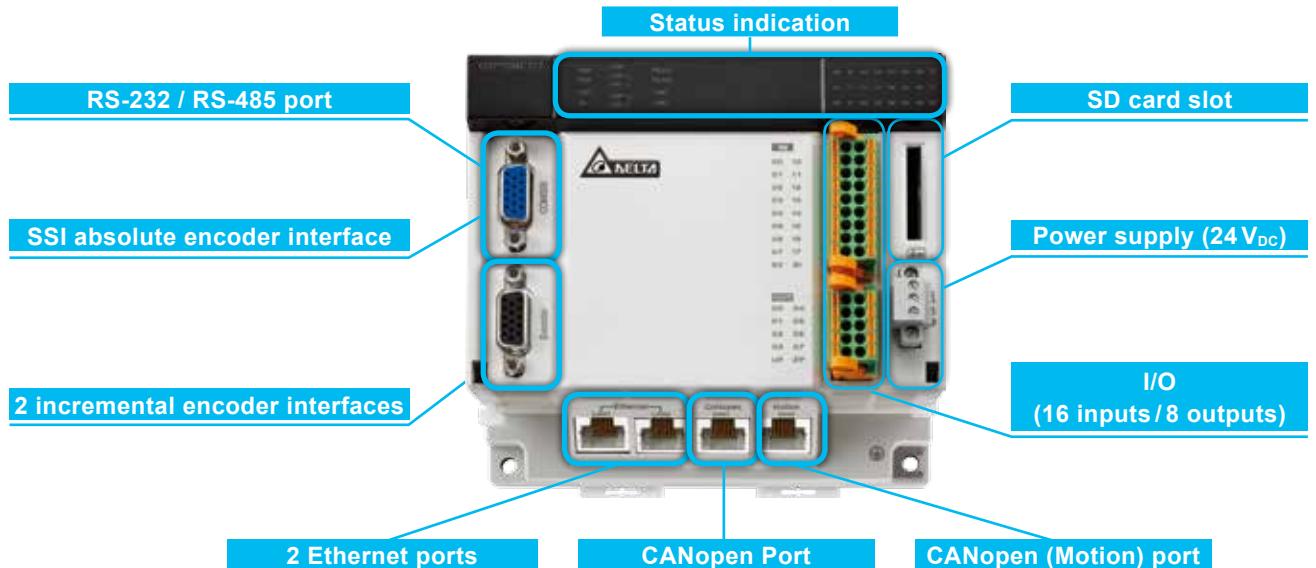


Motion Network and Wiring

- CANopen motion network
- Up to 1 Mbps communication speed
- Up to 100 m communication distance (at 500 Kbps)
- Simple wiring, plug-and-play (communication cable, terminal resistor and distribution box)

DVP15MC11T Interface

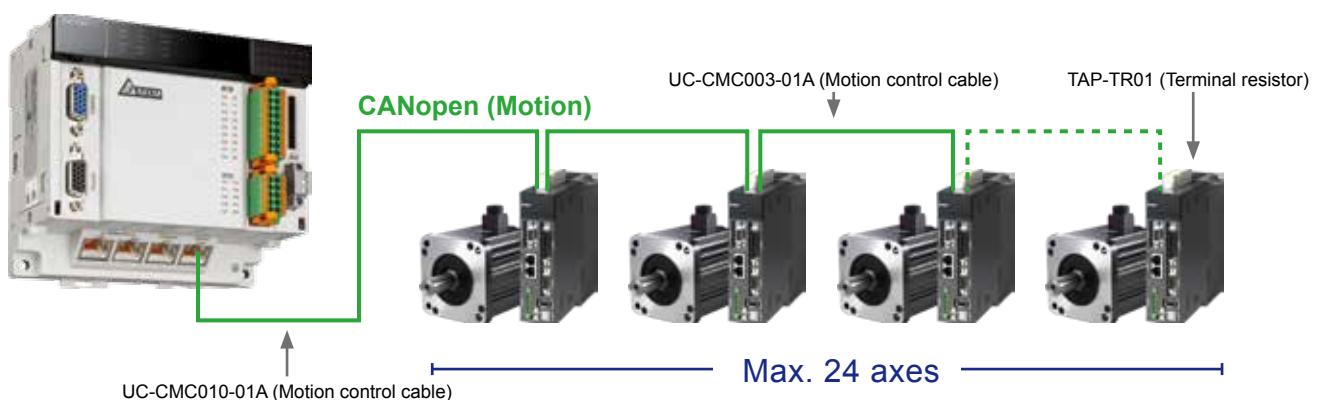
Multiple built-in communication interfaces allow easy connection to other equipment without additional communication modules.



Simple Wiring, Plug-and-Play Motion Control Network

The DVP15MC11T features stable CANopen communication, simple wiring, plug-and-play functions, and communicates with servo drives (axes) via CANopen network. Delta provides communication cable, terminal resistor and distribution box.

*Please refer to "Accessories" for detail information.



Compatible with Servo Drives via CANopen (Motion) Port

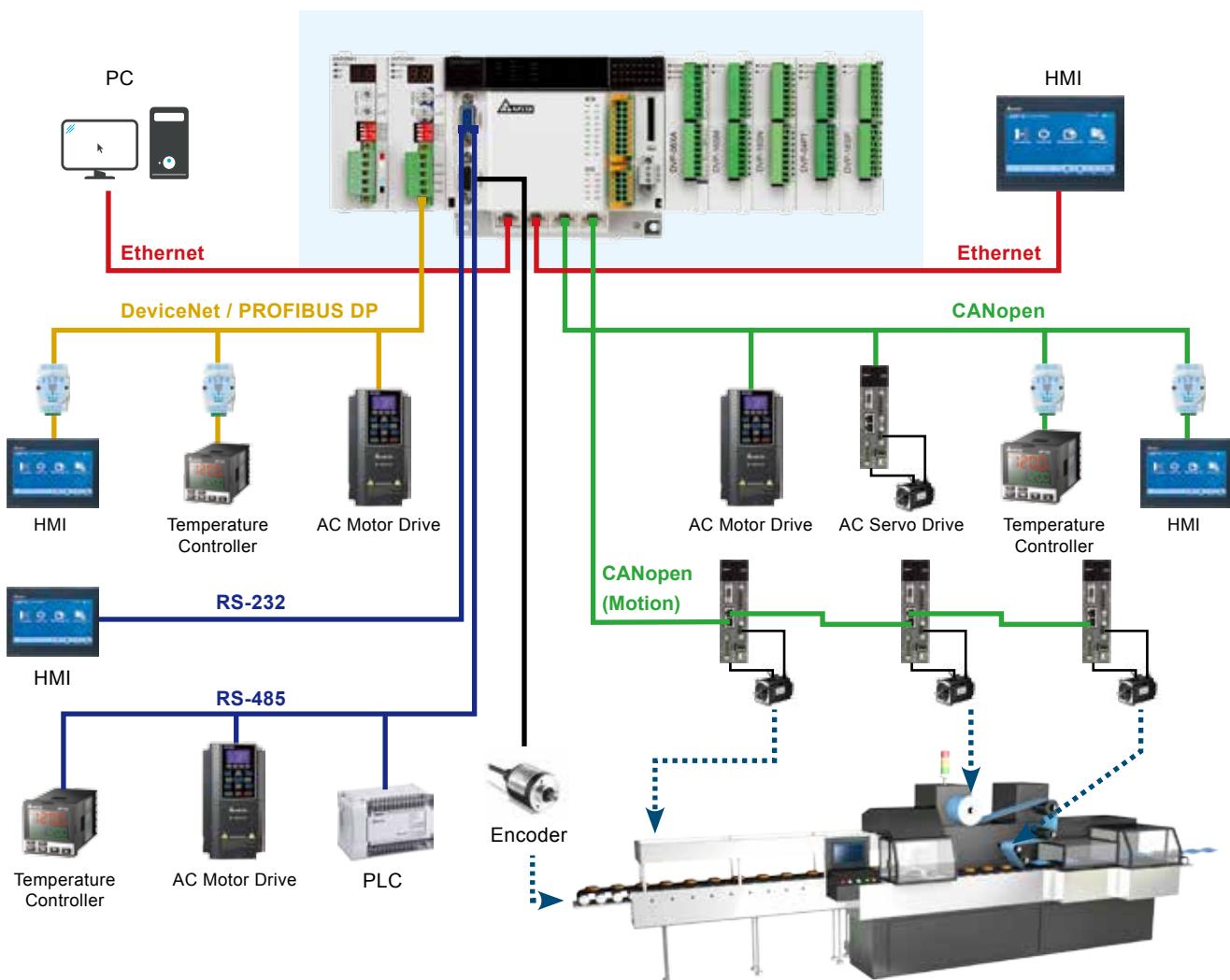
Delta's AC Motor Drives ASDA-A2-XXXX*-M models support CANopen communication, and they are the only models that can be connected to a DVP15MC11T CANopen (Motion) port and DVP10MC11T for motion control networks. The other CANopen port can be connected to all equipment that supports CANopen networks. The ASDA-A2-XXXX-M models provide high positioning accuracy and low-speed operation stability when matched with ECMA Series servo motors with high-precision encoder (20-bit resolution and 1,280,000 pulse/rev).

* XXXX represents output power and input voltage.



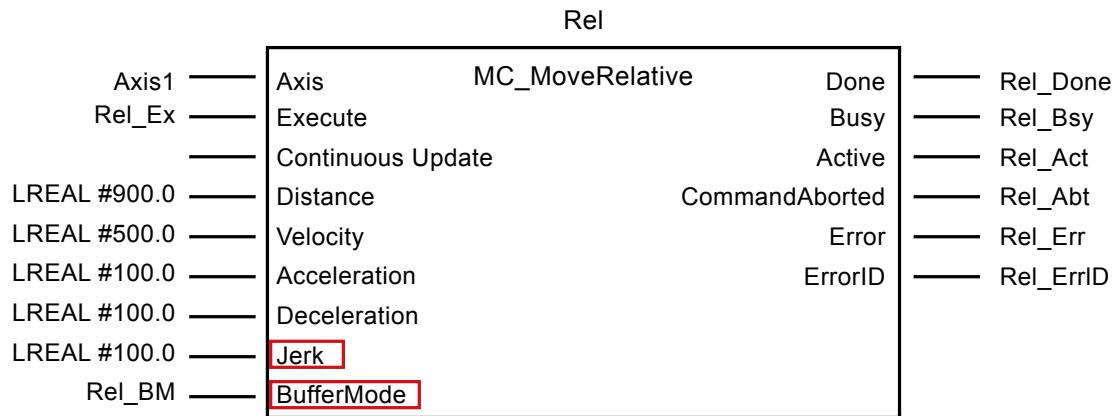
System Structure

DVP15MC11T provides multiple industrial networks. As in the structure shown below, DVP15MC11T can be connected to a variety of industrial automation equipment via Ethernet (upper layer), CANopen, DeviceNet, PROFIBUS DP (middle layer) and RS-485 (lower layer, support Modbus).

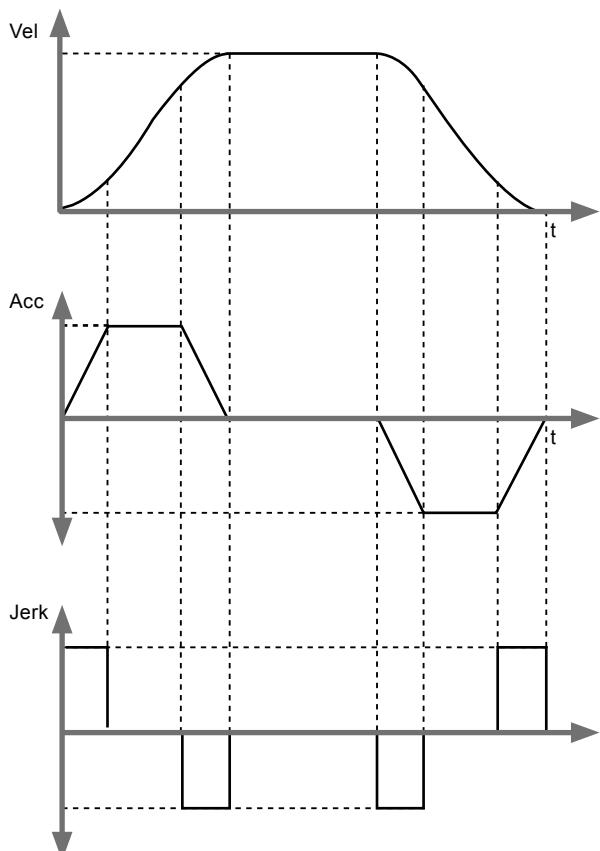


Motion Control

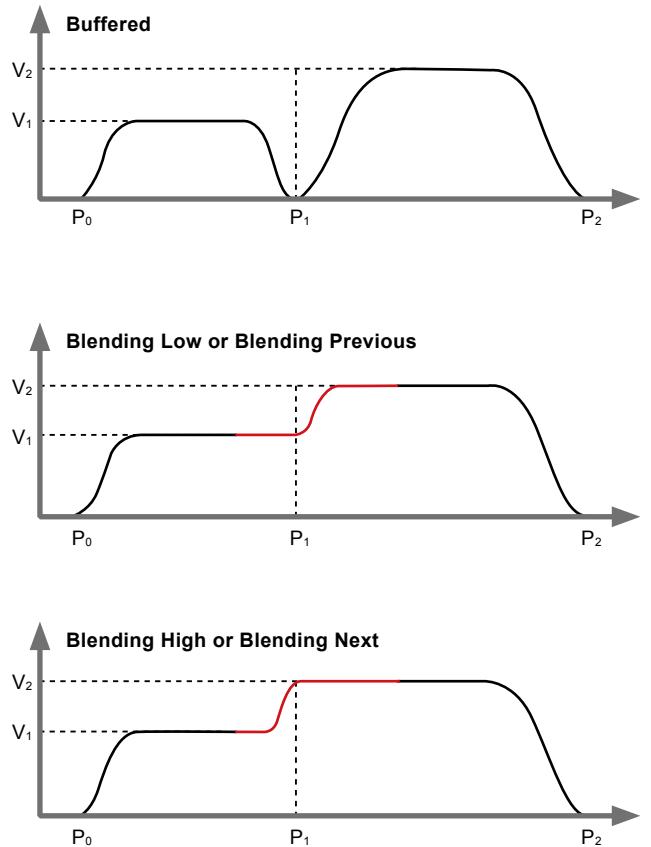
Supports BufferMode and Jerk motion instructions:



Supports Jerk motion instruction: modify the Jerk value to make the velocity curve smoother



Supports BufferMode motion instruction: enables smooth transition between 2 instructions



CANopen Configuration Software: CANopen Builder

- Features network arrangement, motion control programming, G-code editor / graph preview and E-Cam curve planning
- Supports international standard function blocks for motion control, enhancing program editing efficiency

The screenshot shows the Delta CANopen Builder software interface. It includes several windows and toolbars. On the left, there's a navigation tree with categories like Project, Network, Device Layout, Library, and Functions. In the center, there are four main panes: 1) A network configuration window showing nodes N02, N03, and N04 with their respective connection details. 2) A function block diagram editor showing a sequence of blocks connected by lines. 3) A G-code editor and preview window displaying a 3D plot of a helical path. 4) An E-Cam Curve Planning window showing multiple curves plotted against time or position. Arrows from the surrounding text boxes point to specific features in these windows.

- Network Arrangement**
Network scanning for listing all the equipment
- Motion Control**
Supports international standard function blocks for motion control
- G-code Editor and Preview**
G-code editing and preview, direct DXF files import available
- Program Editing**
CFC, LD, ST, function blocks connection and syntax check
- E-Cam Curve Planning**
Allows users to plan E-Cam curves according to their needs for more complex control

Professional Motion Control Applications

Designed as the most outstanding and economical motion controller, the DVP-PM Series provides flying shear, rotary cut, electronic cam and many advanced 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 amounts 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 cutting to ensure precise cutting results.



Digital Board Cutting Machine

The DVP-PM Series' built-in flying shear function is able to complete synchronous conveyance and cutting speed, and ensures precise cutting results on conveyor belts.



CNC Lathe

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



High Performance PLC DVP-EH Series and Extension Modules

Small PLC with Highest Operation Efficiency

DVP-EH3

- ▶ Max. 512 I/O points
- ▶ 200 kHz high-speed pulse output
- ▶ High-speed extension modules
- ▶ Linear/Arc interpolation
- ▶ L type, supports extension modules (left-side)



Function Cards

■ RS-232/RS-422/RS-485 Communication (COM3 Port, DVP-EH3 series PLC only)

DVP-F232



DVP-F422



DVP-F485



■ Ethernet Communication

DVP-FEN01 (DVP-EH3 only)



■ Analog I/O

DVP-F2AD

DVP-F2DA



Accessories

■ Data Backup Card

DVP-512FM (DVP-EH3 only)



DVPPCC01
(for general applications)



■ Data Transmission Cable

UC-MS030-01A



| Model Name | Specifications |
|------------------------------|---|
| DVP16EH00R3 | 2 counters of 200 kHz input |
| DVP16EH00T3 | 2 counters of 200 kHz input, 2 axes of 200 kHz output |
| DVP20EH00R3 | 2 counters of 200 kHz input, 1 counter of 20 kHz input |
| DVP20EH00T3 | 2 counters of 200 kHz input, 2 axes of 200 kHz output |
| DVP32EH00R3 | 4 counters of 200 kHz input |
| DVP32EH00T3 ² | 4 counters of 200 kHz input, 4 axes of 200 kHz output |
| DVP32EH00M3 | 4 counters of 200 kHz input (Differential: 2 sets), 2 axes of 200 kHz output (Differential: 2 axes) |
| DVP32EH00MT New | 4 counters of 200 kHz input (Differential: 2 sets), 2 axes of 200 kHz output (Differential: 2 axes) |
| DVP32EH00R3-L ¹ | 4 counters of 200 kHz input |
| DVP32EH00T3-L ^{1,2} | 4 counters of 200 kHz input, 4 axes of 200 kHz output |
| DVP40EH00R3 | 4 counters of 200 kHz input |
| DVP40EH00T3 | 4 counters of 200 kHz input, 4 axes of 200 kHz output |
| DVP48EH00R3 | 4 counters of 200 kHz input |
| DVP48EH00T3 | 4 counters of 200 kHz input, 4 axes of 200 kHz output |
| DVP64EH00R3 | 4 counters of 200 kHz input |
| DVP64EH00T3 | 4 counters of 200 kHz input, 4 axes of 200 kHz output |
| DVP80EH00R3 | 4 counters of 200 kHz input |
| DVP80EH00T3 | 4 counters of 200 kHz input, 4 axes of 200 kHz output |

—AC— AC power supply ↗ Inputs ↑ Outputs R→ Relay output T→ Transistor output M→ Differential output

*1 Supports high-speed extension (left-side).

*2 DVP32EH Series produced after 2014 support 4 axes of 200 kHz output

Digital I/O Modules

Input Point Extension

- DVP08HM11N
- DVP16HM11N
- DVP32HM11N



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
- DVP04AD-H3
V: 16-bit
I: 16-bit



Analog Output

- DVP04DA-H2
V: 12-bit
I: 12-bit
- DVP04DA-H3
V: 16-bit
I: 16-bit



Analog Input/Output

- DVP06XA-H2
Input 4CH/Output 2CH
V: 12-bit/V : 12-bit
I: 11-bit/I : 12-bit
- DVP06XA-H3
V: 16-bit
I: 16-bit



Temperature Measurement

Sensor: Pt100

- DVP04PT-H2



Sensor:

- DVP04TC-H2
J, K, R, S, E, N, T
thermocouple
0 ~ 150mV
- DVP08TC-H2
J, K, R, S, E, N, T
thermocouple
±150mV



DVP32EH00R3-L & DVP32EH00T3-L: compatible with DVP-SV Series' high-speed extension modules (left-side)



Motion Control

Single-Axis Positioning

- DVP01PU-H2



High-Speed Counter

- DVP01HC-H2

Standard PLC DVP-ES2 / EX2 Series and Extension Modules

The Most Profitable Solution for Sequential Control

DVP-ES2 / EX2

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



reddot design award
winner 2010

| Model Name | Specifications |
|---------------------------------|---|
| DVP16ES200R | - (AC power supply) → 8 Inputs ↑ 8 Outputs (Relay output) → R → (Transistor output) |
| DVP16ES200T | - (AC power supply) → 8 Inputs ↑ 8 Outputs (Transistor output) → T → (Relay output) |
| DVP20ES200RE <small>New</small> | - (AC power supply) → 12 Inputs ↑ 8 Outputs (Relay output) → R → 2 Ethernet ports |
| DVP20ES200TE <small>New</small> | - (AC power supply) → 12 Inputs ↑ 8 Outputs (Transistor output) → T → 2 Ethernet ports |
| DVP24ES200R | - (AC power supply) → 16 Inputs ↑ 8 Outputs (Relay output) → R → (Transistor output) |
| DVP24ES200T | - (AC power supply) → 16 Inputs ↑ 8 Outputs (Transistor output) → T → (Relay output) |
| DVP32ES200R | - (AC power supply) → 16 Inputs ↑ 16 Outputs (Relay output) → R → (Transistor output) |
| DVP32ES200T | - (AC power supply) → 16 Inputs ↑ 16 Outputs (Transistor output) → T → (Relay output) |
| DVP32ES211T | - DC power supply → 16 Inputs ↑ 16 Outputs (Transistor output) → T → (Relay output) |
| DVP32ES200RC | - (AC power supply) → 16 Inputs ↑ 16 Outputs (Relay output) → R → CANopen |
| DVP32ES200TC | - (AC power supply) → 16 Inputs ↑ 16 Outputs (Transistor output) → T → CANopen |
| DVP32ES200RE <small>New</small> | - (AC power supply) → 16 Inputs ↑ 16 Outputs (Relay output) → R → 2 Ethernet ports |
| DVP32ES200TE <small>New</small> | - (AC power supply) → 16 Inputs ↑ 16 Outputs (Transistor output) → T → 2 Ethernet ports |
| DVP40ES200R | - (AC power supply) → 24 Inputs ↑ 16 Outputs (Relay output) → R → (Transistor output) |
| DVP40ES200T | - (AC power supply) → 24 Inputs ↑ 16 Outputs (Transistor output) → T → (Relay output) |
| DVP40ES200RE <small>New</small> | - (AC power supply) → 24 Inputs ↑ 16 Outputs (Relay output) → R → 2 Ethernet ports |
| DVP40ES200TE <small>New</small> | - (AC power supply) → 24 Inputs ↑ 16 Outputs (Transistor output) → T → 2 Ethernet ports |
| DVP60ES200R | - (AC power supply) → 36 Inputs ↑ 24 Outputs (Relay output) → R → (Transistor output) |
| DVP60ES200T | - (AC power supply) → 36 Inputs ↑ 24 Outputs (Transistor output) → T → (Relay output) |
| DVP60ES200RE <small>New</small> | - (AC power supply) → 36 Inputs ↑ 24 Outputs (Relay output) → R → 2 Ethernet ports |
| DVP60ES200TE <small>New</small> | - (AC power supply) → 36 Inputs ↑ 24 Outputs (Transistor output) → T → 2 Ethernet ports |

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

DVP-EX2

| Model Name | Specifications |
|-------------|--|
| DVP20EX200R | - (AC power supply) → 8 Inputs ↑ 6 Outputs (Relay output) → 4AI/2AO |
| DVP20EX200T | - (AC power supply) → 8 Inputs ↑ 6 Outputs (Transistor output) → 4AI/2AO |
| DVP30EX200R | - (AC power supply) → 16 Inputs ↑ 10 Outputs (Relay output) → 3AI/1AO |
| DVP30EX200T | - (AC power supply) → 16 Inputs ↑ 10 Outputs (Transistor output) → 3AI/1AO |

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

Measurement Modules

DVP04PT-E2

DVP04TC-E2



Resolver Modules

DVP10RC-E2¹



DVP-ES2 Series Extension Cable Modules

DVPAEXT01-E2



¹*1. Contact your sales representative for the official launch date of the DVP10RC-E2 module.

Slim PLC DVP-S Series

Compact, Flexible Extension

DVP-SS2

Standard Slim PLC



| Model Name | Specifications | | | |
|--------------------------------|----------------|------|------|------------------------------|
| DVP28SS211R <small>New</small> | —DC— | 16 ↗ | 12 ↘ | Relay output (R→) |
| DVP28SS211T <small>New</small> | —DC— | 16 ↗ | 12 ↘ | Transistor output (NPN) (T→) |
| DVP14SS211R | —DC— | 8 ↗ | 6 ↘ | Relay output (R→) |
| DVP14SS211T | —DC— | 8 ↗ | 6 ↘ | Transistor output (NPN) (T→) |
| DVP12SS211S | —DC— | 8 ↗ | 4 ↘ | Transistor output (PNP) (S→) |

—DC— DC power supply ↗ Inputs ↘ Outputs
 (T→) Transistor output (NPN) (R→) Relay output
 (S→) Transistor output (PNP)

DVP-SA2

Advanced Slim PLC



| Model Name | Specifications | | | |
|---|----------------|------|------|------------------------------|
| DVP28SA211R ¹ <small>New</small> | —DC— | 16 ↗ | 12 ↘ | Relay output (R→) |
| DVP28SA211T ¹ <small>New</small> | —DC— | 16 ↗ | 12 ↘ | Transistor output (NPN) (T→) |
| DVP12SA211R | —DC— | 8 ↗ | 4 ↘ | Relay output (R→) |
| DVP12SA211T | —DC— | 8 ↗ | 4 ↘ | Transistor output (NPN) (T→) |

¹ The DVP28SA2 models do not support left-side modules.

—DC— DC power supply ↗ Inputs ↘ Outputs
 (T→) Transistor output (NPN) (R→) Relay output

DVP-SX2

Analog I/O Slim PLC



| Model Name | Specifications | | | |
|-------------|----------------|-----|-----|---|
| DVP20SX211R | —DC— | 8 ↗ | 6 ↘ | Relay output (R→) 4AI/2AO |
| DVP20SX211T | —DC— | 8 ↗ | 6 ↘ | Transistor output (NPN) (T→) 4AI/2AO |
| DVP20SX211S | —DC— | 8 ↗ | 6 ↘ | Transistor output (PNP) (S→) 4AI/2AO |

—DC— DC power supply ↗ Inputs ↘ Outputs
 (T→) Transistor output (NPN) (R→) Relay output
 (S→) Transistor output (PNP)

DVP-SV2

High Performance Slim PLC



| Model Name | Specifications | | | |
|-------------|----------------|------|------|-------------------------------------|
| DVP28SV11R2 | —DC— | 16 ↗ | 12 ↘ | Relay output (R→) |
| DVP28SV11T2 | —DC— | 16 ↗ | 12 ↘ | Transistor output (NPN) (T→) |
| DVP28SV11S2 | —DC— | 16 ↗ | 12 ↘ | Transistor output (PNP) (S→) |
| DVP24SV11T2 | —DC— | 10 ↗ | 12 ↘ | Transistor output (NPN) (T→) 2AI |

—DC— DC power supply ↗ Inputs ↘ Outputs
 (T→) Transistor output (NPN) (R→) Relay output
 (S→) Transistor output (PNP)

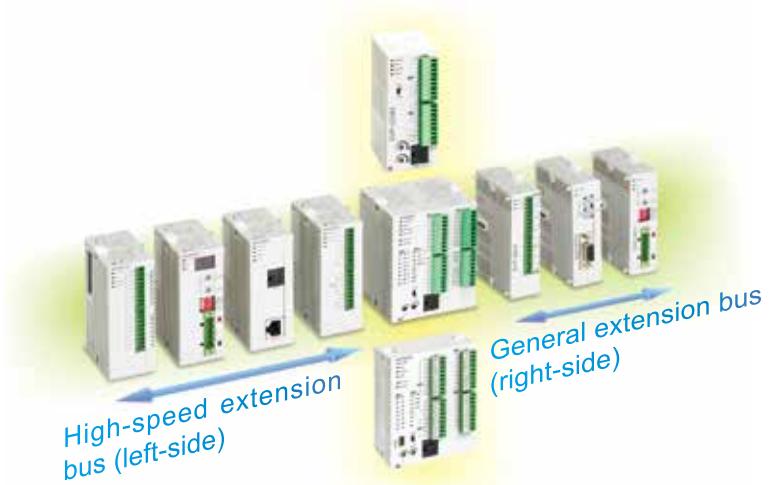
DVP-SE

Network Type Advanced Slim PLC



| Model Name | Specifications | | | |
|-------------------------------|----------------|------|------|------------------------------|
| DVP26SE11R <small>New</small> | —DC— | 14 ↗ | 12 ↘ | Relay output (R→) |
| DVP26SE11T <small>New</small> | —DC— | 14 ↗ | 12 ↘ | Transistor output (NPN) (T→) |
| DVP12SE11R | —DC— | 8 ↗ | 4 ↘ | Relay output (R→) |
| DVP12SE11T | —DC— | 8 ↗ | 4 ↘ | Transistor output (NPN) (T→) |

—DC— DC power supply ↗ Inputs ↘ Outputs
 (T→) Transistor output (NPN) (R→) Relay output



Slim PLC DVP-S Series

Extension Modules

| High-speed Extension Modules (left-side) ^{*1} | General Extension Modules (right-side) ^{*2} | | |
|--|---|---|---|
| Network Modules | I/O Point Extension | Input Point Extension | Output Point Extension |
| <ul style="list-style-type: none"> ■ DeviceNet Master DVPDNET-SL ■ CANopen Master DVPCOPM-SL  |  | DVP08SM11N DVP16SM11N | DVP06SN11R DVP08SN11R/T DVP08SN11TS DVP16SN11T DVP16SN11TS |
| <ul style="list-style-type: none"> ■ Ethernet DVPEN01-SL ■ PROFIBUS-DP Slave DVPPF02-SL  | DVP32SM11N | DVP32SN11TN | DVP08ST11N |
| <ul style="list-style-type: none"> ■ RS-422/RS-485 Serial Communication Module DVPSCM12-SL ■ BACnet MS/TP Slave Serial Communication Module  | Analog Extension | Analog Input | Analog Output |
| <ul style="list-style-type: none"> ■ Analog Input DVP04AD-SL ■ Analog Output DVP04DA-SL  | DVP04AD-S DVP06AD-S DVP04AD-S2 | DVP04DA-S DVP02DA-S DVP04DA-S2 | DVP06XA-S DVP06XA-S2 |
| Load Cell/Tension | Temperature Measurement | Temperature Control | Axis Control Module |
| <ul style="list-style-type: none"> ■ Load Cell Module <p>DVP01LC-SL DVP02LC-SL DVP201LC-SL DVP211LC-SL DVP202LC-SL</p>  | DVP04PT-S DVP06PT-S | DVP04TC-S | DVP02TUN-S DVP02TUR-S DVP02TUL-S |
| Communication Modules | Power Supply Modules | Axis Control Module | |
| <ul style="list-style-type: none"> ■ PROFIBUS Slave DVPPF01-S ■ DeviceNet Slave DV PDT01-S  | DVPPS01 DVPPS02 DVPPS05 | <ul style="list-style-type: none"> ■ Single-Axis Positioning DVP01PU-S  | |

*1. DVP32EH00R3-L & DVP32EH00T3-L are also compatible with the left-side high-speed extension modules.

*2. Max. quantity of right-side extension module is 14, among which the quantity of -S and -S2 modules must be equal to or less than 8. If the total quantity of extension modules is over 14, applying high density extension modules is recommended.

Specifications

Electrical Specifications

| | AC | DC |
|---------------------------------|--|--|
| Power Supply Voltage | 100~240V _{AC} (-15%~10%), 50/60Hz ±5% | 24V _{DC} (-15%~20%) |
| Fuse Capacity | 2A/250V _{AC} | ES: 2A/250V _{AC} ; SV: 2.5A/30V _{DC} |
| Spike Voltage Durability | 1500V _{AC} (Primary-secondary); 1500V _{AC} (Primary-PE); 500V _{AC} (Secondary-PE) | |
| Insulation Impedance | >5MΩ (all I/O point-to-ground: 500V _{DC}) | |
| 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); 5%~95% (humidity); pollution degree 2 | |

Input Specifications^{*1}

| Max. Input Frequency | 10 kHz | 20 kHz | 100 kHz | 200 kHz |
|-----------------------------------|------------------------------|---|---|---|
| Input Signal Type | NPN (Sink)/PNP (Source) | | | |
| Input Signal Voltage | 24V _{DC} ±10% (5mA) | | | |
| Response time^{*2} | OFF→ON: 20μs ON→OFF: 50μs | ES/EX/SX/SS2/SX2 OFF→ON: 3.5μs ON→OFF: 20μs | ES2/EX2/SA2/SX2 OFF ON: 2.5μs ON→OFF: 5μs | EH3/SV2/PM OFF→ON: 0.15μs ON→OFF: 3μs |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*1. For more detailed specifications, see the "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}

| | Relay-R | Transistor-T | | |
|--|---------------------------------------|------------------------------|---|---|
| | | General speed | High speed | |
| Max. Exchange (working) Frequency | 1Hz ^{*2} | 10 kHz | 100 kHz | 200 kHz |
| Current spec. | 2A/1 Point | 0.3A/point @40°C | SA2/SX2/ES2/EX2/SE | EH3/SV2/PM |
| | | | Resistive: 0.5A/point (4A/COM) | Resistive: 0.5A/point (4A/COM) |
| | | | Conductive: 12W (24V _{DC}) Light bulb: 2W (24V _{DC}) | Conductive: 12W (24V _{DC}) Light bulb: 2W (24V _{DC}) |
| | 1.5A/1 Point | | | |
| | | | | |
| Voltage Spec. | 250V _{AC} /30V _{DC} | | 30V _{DC} | |
| Response Time | 10ms | OFF→ON: 20μs ON→OFF: 30μs | OFF→ON: 2μs ON→OFF: 3μs | OFF→ON: 0.5μs ON→OFF: 2.5μs |

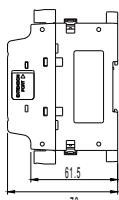
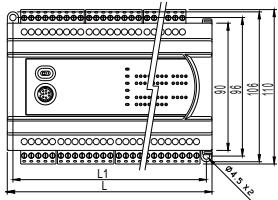
*1. For more detailed specifications, see the "Specification" section in the instruction sheet of each model.

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

Dimensions (unit: mm)

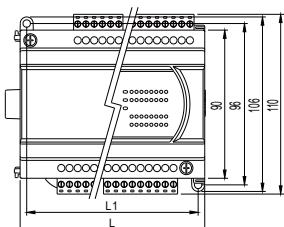
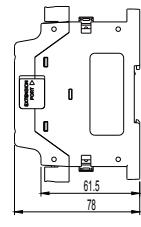
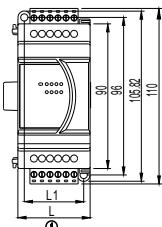
DVP-ES2/EX2 Series

| Model Name (mm) | L | L1 |
|-----------------|-----|-----|
| DVP16ES200R/T | 105 | 97 |
| DVP20ES200RE | 125 | 117 |
| DVP20ES200TE | 125 | 117 |
| DVP24ES200R/T | 125 | 117 |
| DVP32ES200R/T | 145 | 137 |
| DVP32ES200RC | 145 | 137 |
| DVP32ES200TC | 145 | 137 |
| DVP32ES200RE | 165 | 157 |
| DVP32ES200TE | 165 | 157 |
| DVP32ES211T | 145 | 137 |
| DVP40ES200R/T | 165 | 157 |
| DVP40ES200RE | 194 | 186 |
| DVP40ES200TE | 194 | 186 |
| DVP60ES200R/T | 225 | 217 |
| DVP60ES200RE | 255 | 247 |
| DVP60ES200TE | 255 | 247 |
| DVP20EX200R/T | 145 | 137 |
| DVP30EX200R/T | 165 | 157 |



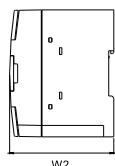
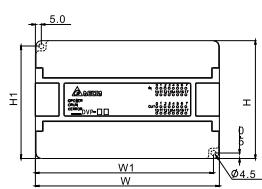
DVP-ES2/EX2 Series

| Model Name (mm) | L | L1 | Type |
|-----------------|-----|-----|------|
| DVP08XM21N | 45 | 37 | ① |
| DVP08XP211R/T | 45 | 37 | ① |
| DVP08XN211R/T | 45 | 37 | ① |
| DVP16XM21N | 70 | 62 | ② |
| DVP16XP211R/T | 70 | 62 | ② |
| DVP16XN211R/T | 70 | 62 | ② |
| DVP24XP200R/T | 145 | 137 | ② |
| DVP24XN200R/T | 145 | 137 | ② |
| DVP32XP200R/T | 145 | 137 | ② |
| DVP04AD-E2 | 70 | 62 | ② |
| DVP02DA-E2 | 70 | 62 | ② |
| DVP04DA-E2 | 70 | 62 | ② |
| DVP06XA-E2 | 70 | 62 | ② |
| DVP04PT-E2 | 70 | 62 | ② |
| DVP04TC-E2 | 70 | 62 | ② |
| DVP10RC-E2 | 70 | 62 | ② |



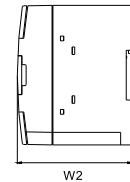
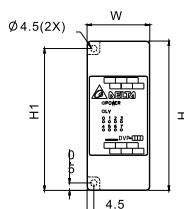
DVP-ES/EX Series

| 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 | 90 | 85.5 | 185 | 180.5 | 89.6 |
| DVP20EX00(11)R2/T2 | 100 | 95 | 155 | 150 | 82 |



DVP-ES2/EX2 Series Extension Modules

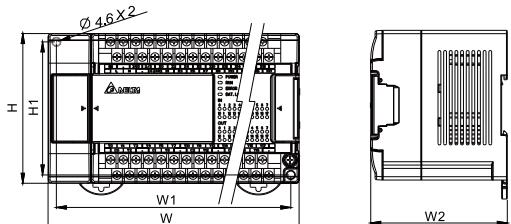
| Model Name (mm) | H | H1 | W | W1 | W2 |
|-----------------|-----|----|-----|------|----|
| DVP08XM11N | 100 | 95 | 42 | 37.5 | 82 |
| DVP16XM11N | 100 | 95 | 104 | 99 | 82 |
| DVP08XN11R/T | 100 | 95 | 42 | 37.5 | 82 |
| DVP16XN11R/T | 100 | 95 | 155 | 150 | 82 |
| DVP24XN11R/T | 100 | 95 | 155 |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



DVP-EH3 Series

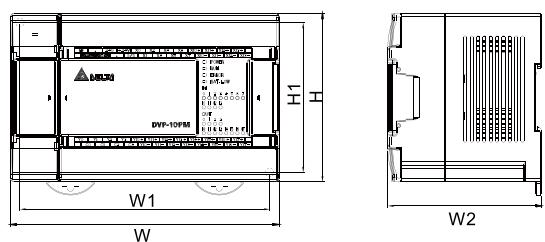
| Model Name (mm) | H | H1 | W | W1 | W2 |
|-----------------|----|----|-------|-------|----|
| DVP16EH00R3/T3 | 90 | 80 | 113 | 103 | 82 |
| DVP20EH00R3/T3 | 90 | 80 | 113 | 103 | 82 |
| DVP32EH00M3/MT | 90 | 80 | 143.5 | 133.5 | 82 |
| DVP32EH00R3/T3 | 90 | 80 | 143.5 | 133.5 | 82 |
| DVP32EH00R3-L | 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 the DVP-EH3 and DVP-EH2 Series are the same.



DVP-PM Series

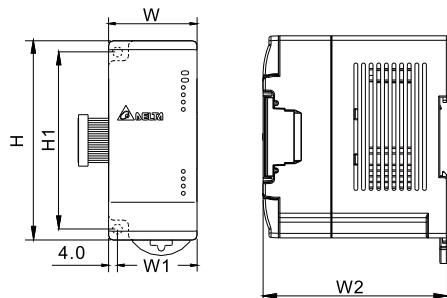
| Model Name (mm) | H | H1 | W | W1 | W2 |
|-----------------|----|----|-------|-------|----|
| DVP20PM00D | 90 | 80 | 174 | 164 | 82 |
| DVP20PM00M | 90 | 80 | 174 | 164 | 82 |
| DVP10PM00M | 90 | 80 | 143.5 | 133.5 | 82 |



DVP-EH3 Series I/O & Extension Modules

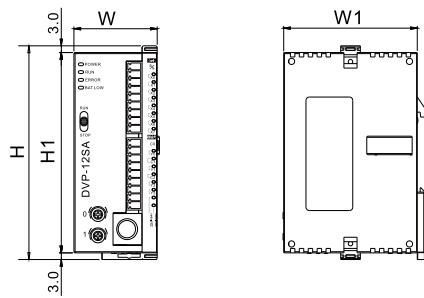
| Model Name (mm) | H | H1 | W | W1 | W2 |
|-----------------|----|----|-------|-------|------|
| DVP08HM11N | 90 | 80 | 40 | 36 | 82 |
| DVP16HM11N | 90 | 80 | 55 | 51 | 82 |
| DVP32HM11N | 90 | 80 | 143.5 | 133.5 | 82.2 |
| DVP08HN11R/T | 90 | 80 | 40 | 36 | 82 |
| DVP32HN00R/T | 90 | 80 | 143.5 | 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 |
| DVP04AD-H3 | 90 | 80 | 60 | 56 | 82 |
| DVP04DA-H3 | 90 | 80 | 60 | 56 | 82 |
| DVP06XA-H3 | 90 | 80 | 60 | 56 | 82 |

*The dimensions of the DVP-EH3 and DVP-EH2 Series are the same.



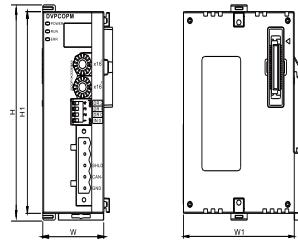
DVP-SE / SX / SS2 / SA2 Series

| Model Name (mm) | H | H1 | W | W1 |
|-----------------|----|----|------|----|
| DVP28SS211R/T | 96 | 90 | 46 | 60 |
| DVP28SA211R/T | 96 | 90 | 46 | 60 |
| DVP26SE11R/T | 96 | 90 | 46 | 60 |
| DVP14SS211R/T | 96 | 90 | 25.2 | 60 |
| DVP12SS211S | 96 | 90 | 25.2 | 60 |
| DVP12SA211R/T | 96 | 90 | 37.4 | 60 |
| DVP12SE11R/T | 96 | 90 | 37.4 | 60 |
| DVP10SX11R/T | 96 | 90 | 37.4 | 60 |



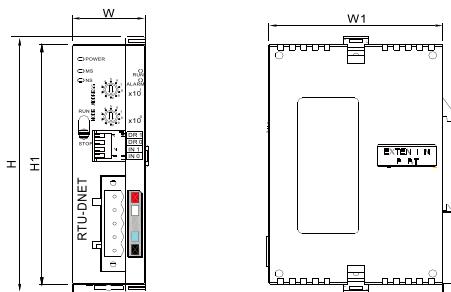
High-Speed Extension Modules (left-side)

| 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 | 90 | 33.1 | 60 |
| DVP01LC-SL | 96 | 90 | 33.1 | 60 |
| DVP02LC-SL | 96 | 90 | 33.1 | 60 |
| DVP201LC-SL | 96 | 90 | 33.1 | 60 |
| DVP202LC-SL | 96 | 90 | 33.1 | 60 |
| DVP211LC-SL | 96 | 90 | 33.1 | 60 |



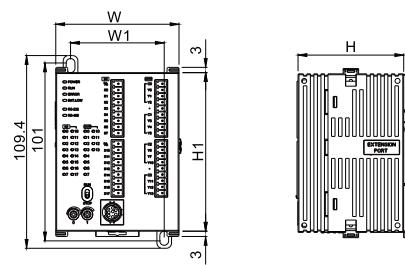
Remote I/O Modules

| Model Name (mm) | H | H1 | W | W1 |
|-----------------|----|----|------|----|
| RTU-DNET | 96 | 90 | 25.2 | 60 |
| RTU-485 | 96 | 90 | 25.2 | 60 |
| RTU-EN01 | 96 | 90 | 25.2 | 60 |
| RTU-PD01 | 96 | 90 | 25.2 | 60 |

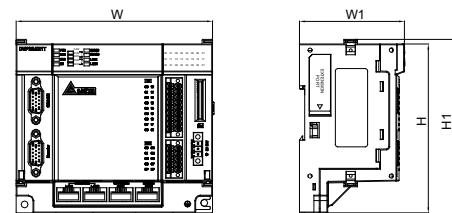


DVP-SV / SX2 / MC Series

| Model Name (mm) | H | H1 | W | W1 |
|-----------------|----|----|----|------|
| DVP28SV11R2/T2 | 60 | 90 | 70 | 53.2 |
| DVP20SX211R/T/S | 60 | 90 | 70 | 53.2 |
| DVP10MC11T | 60 | 90 | 70 | 53.2 |

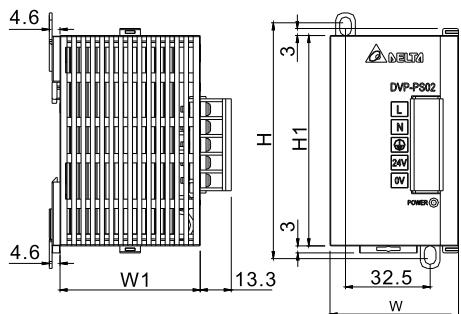


| Model Name (mm) | H | H1 | W | W1 |
|-----------------|-----|-------|-----|------|
| DVP15MC11T | 110 | 116.2 | 128 | 68.4 |



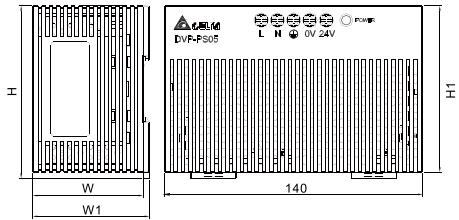
DVP-PS01/02 Power Supply Modules

| Model Name (mm) | H | H1 | W | W1 |
|-----------------|-----|----|------|----|
| DVPPS01 | 100 | 90 | 36.5 | 60 |
| DVPPS02 | 100 | 90 | 55 | 60 |

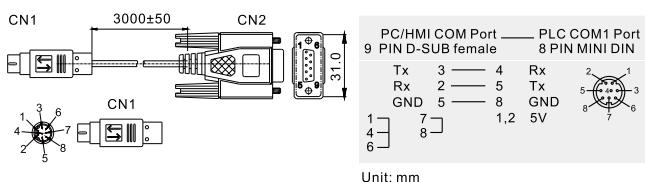


DVP-PS05 Power Supply Modules

| Model Name (mm) | H | H1 | W | W1 |
|-----------------|------|----|----|------|
| DVPPS05 | 93.3 | 90 | 60 | 63.4 |

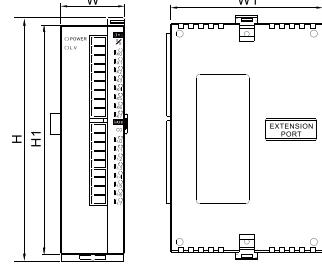


PIN Definition of UC-MS030-01A

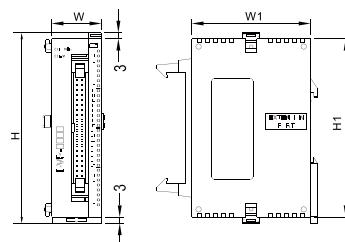


DVP-S Series I/O and Extension Modules

| Model Name (mm) | H | H1 | W | W1 |
|-----------------|----|----|------|----|
| DVP08SM11N | 96 | 90 | 25.2 | 60 |
| DVP06SN11R | 96 | 90 | 25.2 | 60 |
| DVP08SN11R/T/TS | 96 | 90 | 25.2 | 60 |
| DVP08SP11R/T/TS | 96 | 90 | 25.2 | 60 |
| DVP16SP11R/T/TS | 96 | 90 | 25.2 | 60 |
| DVP16SN11T | 96 | 90 | 25.2 | 60 |
| DVP16SN11TS | 96 | 90 | 25.2 | 60 |
| DVP04AD-S | 96 | 90 | 25.2 | 60 |
| DVP04AD-S2 | 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 |
| DVP04DA-S2 | 96 | 90 | 25.2 | 60 |
| DVP06XA-S | 96 | 90 | 25.2 | 60 |
| DVP06XA-S2 | 96 | 90 | 25.2 | 60 |
| DVP04PT-S | 96 | 90 | 25.2 | 60 |
| DVP06PT-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 |
| DVP02TUN-S | 96 | 90 | 25.2 | 60 |
| DVP02TUR-S | 96 | 90 | 25.2 | 60 |
| DVP02TUL-S | 96 | 90 | 25.2 | 60 |



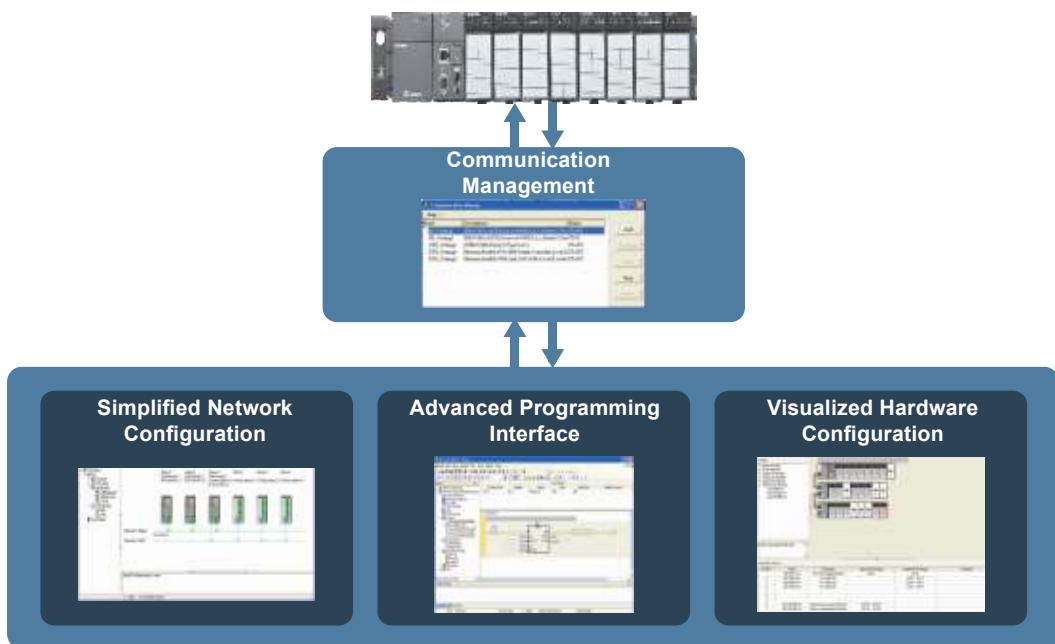
| Model Name (mm) | H | H1 | W | W1 |
|-----------------|----|----|------|----|
| DVP32SN11TN | 96 | 90 | 25.2 | 60 |
| DVP32SM11N | 96 | 90 | 25.2 | 60 |



PLC Editing Software: ISPSoft V2.0

Highly Accessible Programming Software with Fully Integrated Interface

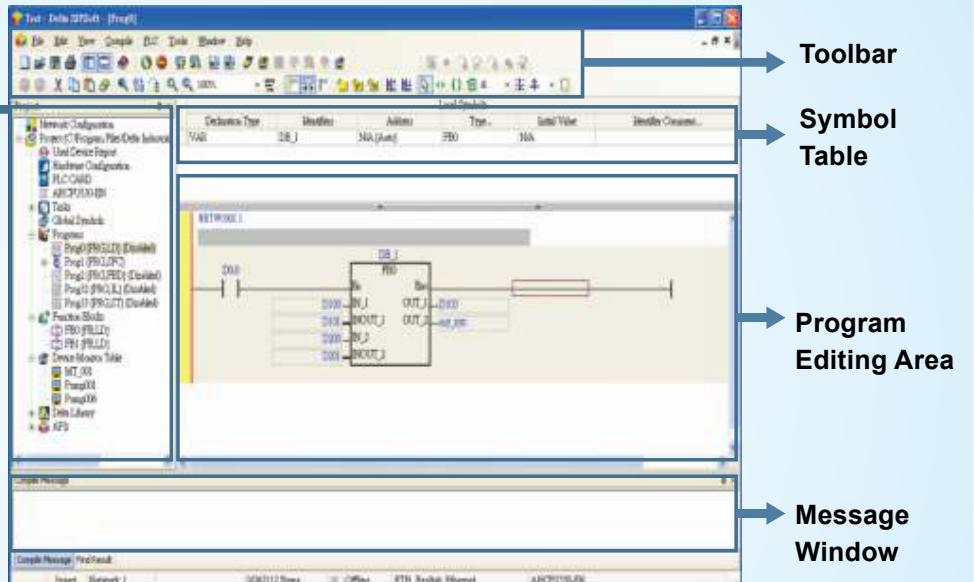
Advanced Programming Interface + Visualized Hardware Configuration + Simplified Network Configuration



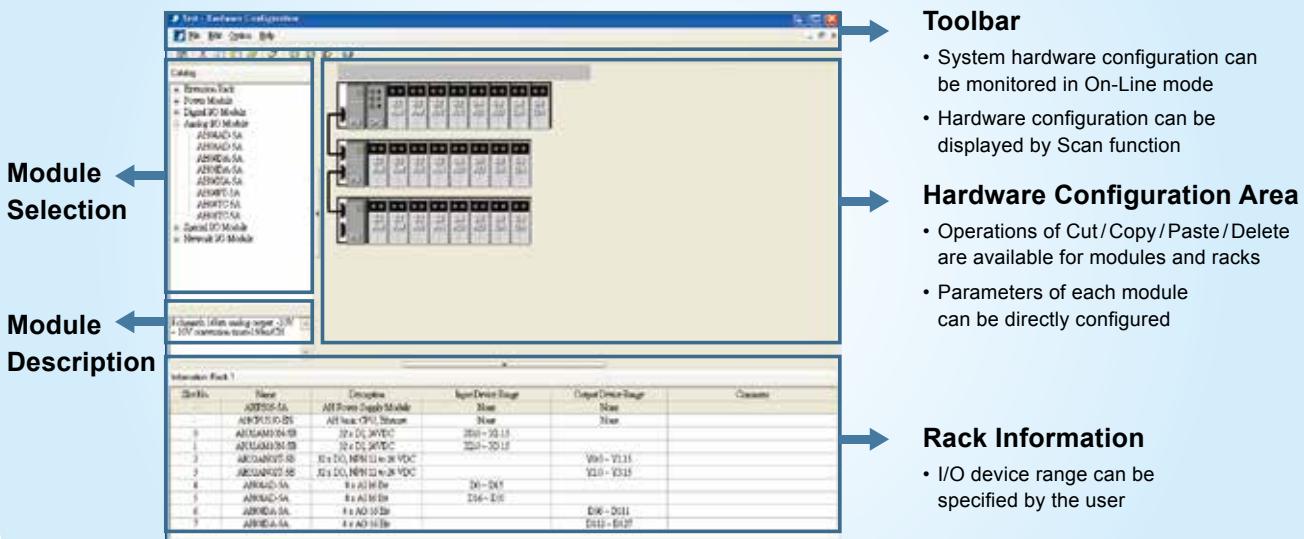
Advanced Programming Interface

Project Management Window

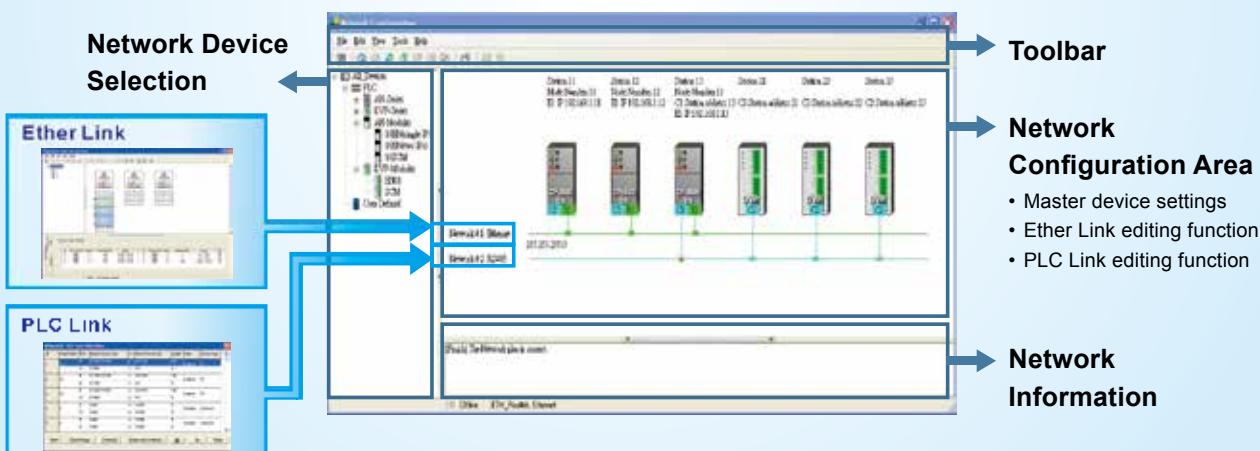
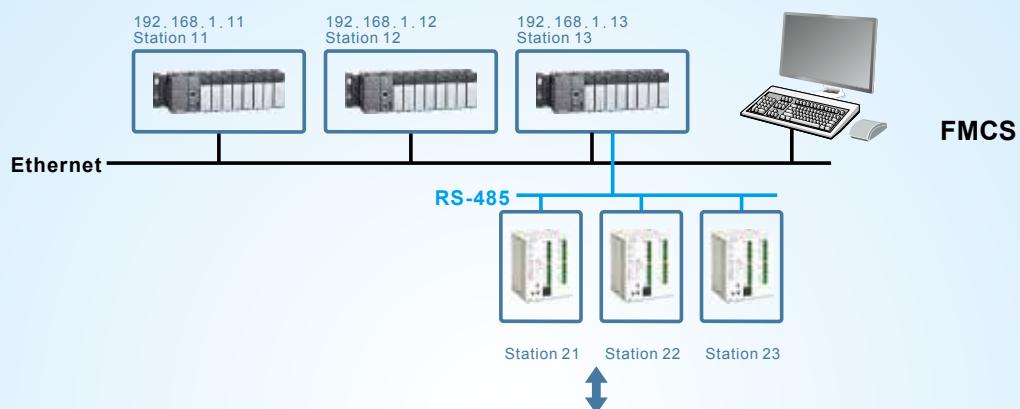
- **New functions:** Network configuration (NWCONFIG), hardware configuration (HWCONFIG) and PLC card utility
- 5 programming languages for programs and function blocks (FB): LD / FBD / SFC / IL / ST
- **Function Blocks:** Symbols can be introduced in call-by-value or call-by-reference types. Function blocks can be called in a function block for up to 32 levels
- **Monitor Table:** It can be stored and managed separately. Multiple monitor tables can be stored in a single project
- **User Library:** Users can design frequently used instructions for specific applications in different industries
- **Task:** Supports cyclic, I/O interrupt, timer interrupt, external interrupt, and more. Software will provide the usable tasks for different CPUs
- Built-in Delta Function Blocks provide a convenient programming environment for operators



Visualized Hardware Configuration



Simplified Network Configuration



Touch/Text Panel HMI with Built-in PLC TP Series

7-Inch Touch Panel HMI with Built-in PLC

TP70P-RM0

- Adopts the core of the DVP-SS2 Series PLC: program capacity: 2k steps / D device: 5k words
- 7" TFT-LCD
- Touch screen
- Built-in USB port for program upload/download
- Built-in RS-232 and RS-485 ports
- Supports MODBUS ASCII/RTU modes
- Built-in real time clock (RTC)

| | |
|------------------|------------------|
| Dimensions | 7" (154 × 85 mm) |
| Resolution | 800 × 480 |
| Display Color | 65,535 colors |
| Flash Memory | 64 M bytes |
| Function Key | Not available |
| Password | Available |
| Recipe Function | Not available |
| RTC | Available |
| Serial COM Port | RS-232 & RS-485 |
| Editing Software | TPEditor |

4-Line Text Panel HMI

TP04G-AL-C

TP04G-AL2

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

| | |
|------------------|-------------------------|
| Dimensions | 4.1" (101.8 × 35.24 mm) |
| Resolution | 192 × 64 |
| Display Color | Monochrome |
| Flash Memory | 256k bytes |
| Function Key | 10 function keys |
| Password | Available |
| Recipe Function | Not available |
| RTC | Available |
| Serial COM Port | RS-232 & RS-422/485 |
| Editing Software | TPEditor |

4-Line Text Panel HMI

TP04G-BL-C

- 4.1" STN-LCD
- 0~9 numeric keys and user-defined function available
- Built-in RS-232 and RS-422/RS-485 ports
- Supports MODBUS ASCII/RTU modes
- Password protection function available
- User-defined boot screen available
- Built-in real time clock (RTC)

| | |
|------------------|-------------------------|
| Dimensions | 4.1" (101.8 × 35.24 mm) |
| Resolution | 192 × 64 |
| Display Color | Monochrome |
| Flash Memory | 256k bytes |
| Function Key | 17 function keys |
| Password | Available |
| Recipe Function | Not available |
| RTC | Available |
| Serial COM Port | RS-232 & RS-422/485 |
| Editing Software | TPEditor |

8-Line Text Panel HMI

TP08G-BT2

- 3.8" STN-LCD
- Resolution: 240x128 dots
- Built-in 1,024KB flash memory
- 24 user-defined function keys
- Built-in RS-232 and RS-422/RS-485 ports
- Supports recipes and macro functions

| | |
|------------------|---------------------|
| Dimensions | 3.8" (83 x 41 mm) |
| Resolution | 240 × 128 |
| Display Color | Monochrome |
| Flash Memory | 1 M bytes |
| Function Key | 24 function keys |
| Password | Available |
| Recipe Function | Available |
| RTC | Available |
| Serial COM Port | RS-232 & RS-422/485 |
| Editing Software | TPEditor |

7-Inch Touch Panel HMI with Built-in PLC

TP70P

- ▶ Adopts the core of the DVP-SS2 Series PLC: program capacity: 4k steps / D device: 5k words
- ▶ Provides 2 sets of 10kHz high-speed pulse input
- ▶ 7" TFT-LCD
- ▶ Touch screen
- ▶ Built-in USB port for program upload/download
- ▶ Built-in RS-485 port*2
- ▶ Supports MODBUS ASCII/RTU modes
- ▶ Built-in real time clock (RTC)
- ▶ Digital and analog I/O terminals available

| | |
|------------------|------------------|
| Dimensions | 7" (154 × 85 mm) |
| Resolution | 800 × 480 |
| Display Color | 65,535 colors |
| Flash Memory | 64 M bytes |
| Function Key | Not available |
| Password | Available |
| Recipe Function | Not available |
| RTC | Available |
| Serial COM Port | 2 sets of RS-485 |
| Editing Software | TPEditor |

4-Line Text Panel HMI with Built-in PLC

TP04P

- ▶ Adopts the core of the DVP-SS2 Series PLC: program capacity: 8k steps / D device: 5k words
- ▶ Provides 2 sets of 10kHz high-speed pulse input
- ▶ 4.1" STN-LCD
- ▶ Provides 0~9 numeric keys with user-defined function
- ▶ Built-in USB port for program upload/download
- ▶ Built-in RS-485 port*2
- ▶ Supports MODBUS ASCII/RTU modes
- ▶ User-defined boot screen available
- ▶ Built-in real time clock (RTC)
- ▶ Digital and analog I/O terminals available

| | |
|------------------|-------------------------|
| Dimensions | 4.1" (101.8 × 35.24 mm) |
| Resolution | 192 × 64 |
| Display Color | Monochrome |
| Flash Memory | 1 M bytes |
| Function Key | 17 function keys |
| Password | Available |
| Recipe Function | Not available |
| RTC | Available |
| Serial COM Port | 2 sets for RS-485 |
| Editing Software | TPEditor |

Applications

Intelligent control systems for aquaculture, steel sleeve tapping machines, air compressors, plant factories

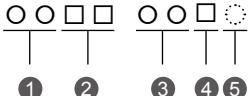
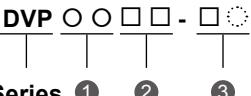
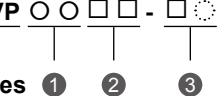
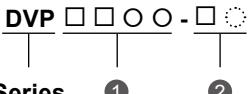
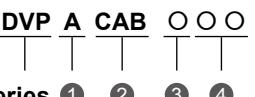


| | | Text Panel HMI | | | | | | Text/Touch Panel HMI with Built-in PLC | | | |
|--|---------------|--|---|---|---|---|---|---|---|--|--|
| Model | | TP02G-AS1 | TP04G-AS2 | TP08G-BT2 | TP04G-AL-C | TP04G-AL2 | TP04G-BL-C | TP04P-Series | TP70P-Series | | |
| | |  |  |  |  |  |  |  |  | | |
| Display Specifications | Screen Type | STN-LCD | | | | | | | TFT-LCD | | |
| | Display Color | Monochrome | | | | | | | 65,535 | | |
| | Resolution | 160 x 32 | 128 x 64 | 240 x 128 | 192 x 64 | | | 800 x 480 | | | |
| | Backlight | Life span of backlight is about 50,000 hours at 25°C | | | | | | | 20,000 hours | | |
| | Display Range | 72 x 22 mm | 3" (67 x 32 mm) | 3.8" (83 x 41 mm) | 4.1" (101.8 x 35.24 mm) | | | 7" (154 x 85 mm) | | | |
| Flash Memory | | 256k bytes | | 1M bytes | 256k bytes | | | 1M bytes | 64M bytes | | |
| Program Download Port | | COM1 (RS-232) | | | | | COM1 (USB) | USB | | | |
| Serial COM Port | COM1 | RS-232 | RS-232/422 | | RS-232 | RS-232/422 | RS-232 | - | - | | |
| | COM2 | RS-485 | | | - | RS-422/485 | RS-422/485 | RS-485 | TP70 with I/O: RS-485 TP70R-RM0: RS-232 | | |
| | COM3 | - | | | - | - | - | 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 | | +24V _{DC} (-10% ~ +20%) | | | | | | | - | | |
| Backup Battery | | 3V lithium battery CR2032 x 1/battery life: 5 years | | | | | | | | | |
| Buzzer | | 85 dB | | | | | | | | | |
| 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 | | IEC 61131-2, IEC 68-2-6 (TEST Fc); 5 Hz ≤ f < 8.4 Hz Continuous: 3.5 mm; 8.4 Hz ≤ f ≤ 150 Hz Continuous: 1.0 g | | | | | | | | | |
| Shock | | IEC 61131-2, 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 ~ 230 MHz, Limits: 40 dB uV/m Frequency: 230 MHz ~ 1 GHz, Limits: 47 dB uV/m | | | | | | | | | |
| Radiated Electromagnetic Field | | EN61000-4-3, Frequency: 80 ~ 2000 MHz, Limits: 10V/m | | | | | | | | | |
| Electrostatic Discharge | | EN61000-4-2, Air Discharge: 8 KV, Contact Discharge: 4 KV | | | | | | | | | |
| Fast Transient Burst | | EN61000-4-4, Power Line: 1 KV, Communication I/O: 500 V | | | | | | | | | |
| 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 | | 175.8 x 108.8 x 37 | 175.8 x 108.6 x 59.2 | TP70 with I/O: 205.6 x 142.6 x 49 TP70R-RM0: 205.6 x 142.6 x 37 | | | |
| Panel Cutout | | 136 x 85 | 196 x 108 | 151 x 96 | | 163 x 96 | 163 x 96 | 191 x 128 | | | |
| Weight | | 240g | 430g | 268g | 270g | 292g | 500g | TP70 with I/O: 680g TP70R-RM0: 620g | | | |
| Safety Approvals (Waterproof Class of Front Panel) | | IP65/NEMA4 & CE, UL Type 4 indoor | | | IP65/NEMA4 & CE, UL | | | | | | |
| Editing Software | | TPEditor V1.87 | | | | | | | | | |

Product Outline and Dimensions



DVP Series Model Name Instructions

| • PLC | • DI/DO Module | • AI/AO Module | |
|---|---|---|--|
|  <p>Series ① ② ③ ④ ⑤</p> <p>1. Total I/O</p> <p>2. Model ES/ES2: DVP-ES/ES2 series PLC EX/EX2: DVP-EX/EX2 series PLC SS/SS2: DVP-SS/SS2 series PLC SA/SA2: DVP-SA/SA2 series PLC SX/SX2: DVP-SX/SX2 series PLC SC: DVP-SC series PLC SV: DVP-SV series PLC SE: DVP-SE series PLC PM: DVP-PM series PLC MC: DVP-MC series PLC EH: DVP-EH series PLC EC: DVP-EC series PLC</p> <p>3. Power supply 00: AC power input 11: DC power input</p> <p>4. Output type R: Relay T: Transistor (NPN) M: Mixed with differential signal S: Transistor (PNP) RC: Relay + CANopen TC: Transistor + CANopen RE: Relay + Ethernet TE: Transistor + Ethernet</p> <p>5. Version</p> |  <p>Series ① ② ③ ④ ⑤</p> <p>1. Total I/O</p> <p>2. Model X: DVP-ES/EX/ES2/EX2 series PLC S: DVP-SS/SA/SX/SC/SV/SS2/ SA2/ SX2/SV2/SE/MC series PLC H: DVP-EH2/EH3/PM series PLC</p> <p>3. I/O type M: Input point N: Output point P: Input + output</p> <p>4. Power supply 00: AC power input 11: DC power input</p> <p>5. Output type R: Relay T: Transistor (NPN) TS: Transistor (PNP) N: None output</p> |  <p>Series ① ② ③</p> <p>1. Total I/O</p> <p>2. Module function AD: Analog/digital conversion DA: Digital/analog conversion PT: PT type temperature module TC: Thermocouple type temperature Module XA: AD + DA module LC: Load cell module RC: Resolver module</p> <p>3. Compatible model S or S2: DVP-SS/SA/SX/SC/SV/SS2/ SA2/SX2/SV2/SE/MC Series PLC SL: left-side extension for DVP-S Series PLC E2: DVP-ES2/EX2 Series PLC</p> | |
| <p>• PI/PO Module</p>  <p>Series ① ② ③</p> <p>1. Total I/O</p> <p>2. Module function HC: High-speed counter PU: Single-axis positioning module</p> <p>3. Compatible model S: DVP-SS/SA/SX/SC/SV/SS2/SA2/ SX2/SV2/SE/MC Series PLC H2/H3: DVP-EH2/EH3/PM Series PLC SL: left-side extension for DVP-S Series PLC</p> <p>• Remote I/O</p>  <p>Series ①</p> <p>1. Type DNET: DeviceNet 485: RS-485 EN01: MODBUS TCP</p> | <p>• Function Card</p>  <p>Series ① ② ③</p> <p>1. Function Card</p> <p>2. Function 232: RS-232 card 422: RS-422 card 485: RS-485 card 2AD: 2ch analog input 2DA: 2ch analog output</p> <p>3. Particular definition S: Slave mode (applicable to COM3 coding only)</p> | <p>• Network Module</p>  <p>Series ① ②</p> <p>1. Module function EN01: MODBUS TCP DNET: DeviceNet master COPM: CANopen master CP02: CANopen Slave DT01/02: DeviceNet Slave PF01/02: PROFIBUS DP Slave</p> <p>2. Compatible model S: DVP-SS/SA/SX/SC/SV/SS2/ SA2/SX2/SV2/SE/MC Series PLC H2/H3: DVP-EH2/EH3/PM Series PLC SL: left-side extension for DVP-S Series PLC</p> <p>• Accessory: Cable</p>  <p>Series ① ② ③ ④</p> <p>1. Accessory</p> <p>2. Accessory definition CAB: Cable</p> <p>3. Type 1, 2, 3, 4,</p> <p>4. Cable length 15: 1.5m 30: 3.0m</p> | <p>• Accessory: Other</p>  <p>Series ① ② ③</p> <p>1. Accessory</p> <p>2. Accessory definition Bt: Battery</p> <p>3. Type: 01, 02</p> |

*For the availability of the product models, please contact Delta sales representatives or refer to "Ordering Information" in this catalogue.

DVP Series PLC Function Overview

Select your desired specifications and locate the most suitable 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 | < 8 k | <input type="checkbox"/> | | | | ○ | | | | |
| | <16k | <input type="checkbox"/> | ○ | ○ | | | ○ | ○ | | ○ |
| | < 32 k | <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"/> | ○ | | △ | | △ | △ | △ | ○ |
| | USB | <input type="checkbox"/> | | | | | ○ | | ○ | |
| | DeviceNet | <input type="checkbox"/> | | | △ *1 | | △ *1 | △ *1 | △ *1 | △ *1 |
| | CANopen | <input type="checkbox"/> | ○ | | △ *1 | | △ *1 | △ *1 | △ *1 | △ *1 |
| | PROFIBUS | <input type="checkbox"/> | | | △ *1 | | △ *1 | △ *1 | △ *1 | △ *1 |
| Positioning | 2-axis output | <input type="checkbox"/> | ○ | ○ | ○ | ○ | ○ | ○ | | ○ |
| | 4-axis output | <input type="checkbox"/> | | | ○ | | | | ○ | |
| | > 4 axes | <input type="checkbox"/> | | | △ | △ | △ | △ | △ | △ |
| | 2-axis interpolation | <input type="checkbox"/> | ○ | ○ | ○ | | ○ | ○ | ○ | ○ |
| | 100 kHz high speed | <input type="checkbox"/> | ○ | ○ | | | ○ | ○ | | ○ |
| | 200 kHz high speed | <input type="checkbox"/> | | | ○ | △ | △ | △ | ○ | △ |
| High-speed Counting | ≤ 2 channels | <input type="checkbox"/> | ○ | ○ | | ○ | ○ | ○ | | ○ |
| | ≥ 3 channels | <input type="checkbox"/> | | | ○ *3 | △ | △ | △ | ○ | △ |
| | 100 kHz high speed | <input type="checkbox"/> | ○ | ○ | | | ○ | ○ | | ○ |
| | 200 kHz 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/function card

*1: Series that support left-side modules can support both master and slave; other series support only slave

*2: DVP-EX / SX2 Series have 4 channels of analog input and 2 channels of analog output

*3: In addition to the built-in 4 channels of high-speed counters, the DVP-EH3 Series can connect high-speed counter modules

Ordering Information

DVP-ES/EX Series PLC

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates | |
|----------------------------|------------------------|---------------|--------|---------|-------------|--|--|
| DVP-ES Series Standard PLC | 100~240V _{AC} | Relay | 8 | 6 | DVP14ES00R2 |   | |
| | 100~240V _{AC} | Transistor | 8 | 6 | DVP14ES00T2 | | |
| | 100~240V _{AC} | Relay | 16 | 8 | DVP24ES00R2 | | |
| | 100~240V _{AC} | Transistor | 16 | 8 | DVP24ES00T2 | | |
| | 100~240V _{AC} | Relay | 18 | 12 | DVP30ES00R2 | | |
| | 100~240V _{AC} | Relay | 16 | 16 | DVP32ES00R2 | | |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32ES00T2 | | |
| | 100~240V _{AC} | Relay | 24 | 16 | DVP40ES00R2 | | |
| | 100~240V _{AC} | Transistor | 24 | 16 | DVP40ES00T2 | | |
| | 100~240V _{AC} | Relay | 36 | 24 | DVP60ES00R2 | | |
| DVP-EX Series Analog PLC | 100~240V _{AC} | Transistor | 36 | 24 | DVP60ES00T2 | | |
| | 100~240V _{AC} | Relay | 8 | 6 | DVP20EX00R2 | | |
| | 100~240V _{AC} | Analog | 4 | 2 | | | |
| | 100~240V _{AC} | Transistor | 8 | 6 | DVP20EX00T2 | | |
| | 100~240V _{AC} | Analog | 4 | 2 | | | |

DVP-ES/EX Series Digital 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 | |

DVP-EC3 Series PLC

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|--------------------------|------------------------|---------------|--------|---------|-------------|--|
| DVP-EC3 Series Basic PLC | 100~240V _{AC} | Relay | 6 | 4 | DVP10EC00R3 |   |
| | 100~240V _{AC} | Transistor | 6 | 4 | DVP10EC00T3 | |
| | 100~240V _{AC} | Relay | 8 | 6 | DVP14EC00R3 | |
| | 100~240V _{AC} | Transistor | 8 | 6 | DVP14EC00T3 | |
| | 100~240V _{AC} | Relay | 8 | 8 | DVP16EC00R3 | |
| | 100~240V _{AC} | Transistor | 8 | 8 | DVP16EC00T3 | |
| | 100~240V _{AC} | Relay | 12 | 8 | DVP20EC00R3 | |
| | 100~240V _{AC} | Transistor | 12 | 8 | DVP20EC00T3 | |
| | 100~240V _{AC} | Relay | 12 | 12 | DVP24EC00R3 | |
| | 100~240V _{AC} | Transistor | 12 | 12 | DVP24EC00T3 | |
| | 100~240V _{AC} | Relay | 18 | 12 | DVP30EC00R3 | |
| | 100~240V _{AC} | Transistor | 18 | 12 | DVP30EC00T3 | |

DVP-EC3 Series PLC

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|--|------------------------|---------------|-----------------------------------|---------|-------------|--|
| DVP-EC3 Series Basic PLC | 100~240V _{AC} | Relay | 16 | 16 | DVP32EC00R3 |   |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32EC00T3 | |
| | 100~240V _{AC} | Relay | 24 | 16 | DVP40EC00R3 | |
| | 100~240V _{AC} | Transistor | 24 | 16 | DVP40EC00T3 | |
| | 100~240V _{AC} | Relay | 28 | 20 | DVP48EC00R3 | |
| | 100~240V _{AC} | Transistor | 28 | 20 | DVP48EC00T3 | |
| | 100~240V _{AC} | Relay | 36 | 24 | DVP60EC00R3 | |
| | 100~240V _{AC} | Transistor | 36 | 24 | DVP60EC00T3 | |
| Fastest execution time of basic instructions | | 3.8 μs | Execution time of MOV instruction | | 5.04 μs | |

DVP-ES2/EX2 Series PLC

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|---|------------------------|---------------|-----------------------------------|---------|--------------|--|
| DVP-ES2 Series Standard PLC | 100~240V _{AC} | Relay | 8 | 8 | DVP16ES200R |   |
| | 100~240V _{AC} | Transistor | 8 | 8 | DVP16ES200T | |
| | 100~240V _{AC} | Relay | 16 | 8 | DVP24ES200R | |
| | 100~240V _{AC} | Transistor | 16 | 8 | DVP24ES200T | |
| | 100~240V _{AC} | Relay | 16 | 16 | DVP32ES200R | |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32ES200T | |
| | 24V _{DC} | Transistor | 16 | 16 | DVP32ES211T | |
| | 100~240V _{AC} | Relay | 24 | 16 | DVP40ES200R | |
| | 100~240V _{AC} | Transistor | 24 | 16 | DVP40ES200T | |
| | 100~240V _{AC} | Relay | 36 | 24 | DVP60ES200R | |
| | 100~240V _{AC} | Transistor | 36 | 24 | DVP60ES200T | |
| DVP-ES2 Series Standard PLC with Built-in CANopen | 100~240V _{AC} | Relay | 16 | 16 | DVP32ES200RC |   |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32ES200TC | |
| New DVP-ES2 Series Standard PLC with Ethernet Communication | 100~240V _{AC} | Relay | 12 | 8 | DVP20ES200RE |   |
| | 100~240V _{AC} | Transistor | 12 | 8 | DVP20ES200TE | |
| | 100~240V _{AC} | Relay | 16 | 16 | DVP32ES200RE | |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32ES200TE | |
| | 100~240V _{AC} | Relay | 24 | 16 | DVP40ES200RE | |
| | 100~240V _{AC} | Transistor | 24 | 16 | DVP40ES200TE | |
| | 100~240V _{AC} | Relay | 36 | 24 | DVP60ES200RE | |
| | 100~240V _{AC} | Transistor | 36 | 24 | DVP60ES200TE | |
| DVP-EX2 Series Analog PLC | 100~240V _{AC} | Relay | 8 | 6 | DVP20EX200R |   |
| | 100~240V _{AC} | Analog | 4 | 2 | DVP20EX200T | |
| DVP-EX2 Series Temperature / Analog PLC | 100~240V _{AC} | Transistor | 8 | 6 | DVP30EX200R |   |
| | 100~240V _{AC} | Analog | 4 | 2 | DVP30EX200T | |
| DVP-EX2 Series Temperature / Analog PLC | 100~240V _{AC} | Relay | 16 | 10 | DVP30EX200R |  |
| | 100~240V _{AC} | Analog | 3 | 1 | DVP30EX200T | |
| Fastest execution time of basic instructions | | 0.35 μs | Execution time of MOV instruction | | 3.4 μs | |

*1: Built-in SD card slot

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

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|----------------|------------------------|---------------|--------|---------|-------------|--|
| Digital Module | 100~240V _{AC} | Relay | - | 24 | DVP24XN200R |   |
| | 100~240V _{AC} | Transistor | - | 24 | DVP24XN200T | |
| | 100~240V _{AC} | Relay | 16 | 8 | DVP24XP200R | |
| | 100~240V _{AC} | Transistor | 16 | 8 | DVP24XP200T | |
| | 100~240V _{AC} | Relay | 16 | 16 | DVP32XP200R | |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32XP200T | |

Ordering Information

DVP-ES2/EX2 Series Digital / Analog Module (24V_{DC})

| Product Name | Output Method | Inputs | Outputs | Model Name | Certificates |
|--|---|--------|---------|-------------|---|
| 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 | |
| Analog I/O Module | • 4 points of analog voltage (10V, 5V)/current (20mA, 0~20mA, 4~20mA) input ^{**1} | | | | DVP04AD-E2 |
| | • Resolution: 14-bit (-32,000~+32,000) | | | | |
| | • 4 points of analog voltage (-10V ~ +10V)/current (0~20mA, 4~20mA) output ^{**1} | | | | DVP04DA-E2 |
| | • Resolution: 14-bit (-32,000~+32,000)/(0~+32,000) | | | | |
| | • 2 points of analog voltage (-10V ~ +10V)/current (0~20mA, 4~20mA) output ^{**1} | | | | DVP02DA-E2 |
| | • Resolution: 14-bit (-32,000~+32,000)/(0~+32,000) | | | | |
| Temperature Measurement Module | • 4 points of analog voltage (10V, 5V)/current (20mA, 0~20mA, 4~20mA) input ^{**1} | | | | DVP06XA-E2 |
| | • 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) | | | | |
| Absolute Resolver Module | • 4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input/0~300Ω resistance input ^{**1} | | | | DVP04PT-E2 |
| | • Resolution: 16-bit | | | | |
| | • With PID temperature control | | | | |
| Temperature Measurement Module | • 4 points of thermocouple (J, K, R, S, T, E, N Type) sensor input/-80mV~+80mV voltage input ^{**1} | | | | DVP04TC-E2 |
| | • Resolution: 20-bit | | | | |
| | • With PID temperature control | | | | |
| • Converts 1 set of resolver input signal (angle/speed) into digital signals | | | | | DVP10RC-E2 |
| • Resolution: 12-bit | | | | | |
| • Supports disconnection detection for distance up to 50m | | | | | |

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

DVP-EH3 Series PLC

| Product name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|--------------------------------------|------------------------|---------------------------|--------|---------|--|---|
| DVP-EH3 Series High Performance PLC | 100~240V _{AC} | Relay | 8 | 8 | DVP16EH00R3 |  |
| | 100~240V _{AC} | Transistor | 8 | 8 | DVP16EH00T3 | |
| | 100~240V _{AC} | Relay | 12 | 8 | DVP20EH00R3 | |
| | 100~240V _{AC} | Transistor | 12 | 8 | DVP20EH00T3 | |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32EH00T3 | |
| | 100~240V _{AC} | Relay | 16 | 16 | DVP32EH00R3 | |
| | 100~240V _{AC} | Differential + Relay | 16 | 16 | DVP32EH00M3 | |
| | 100~240V _{AC} | Differential + Transistor | 16 | 16 | DVP32EH00MT New | |
| | 100~240V _{AC} | Relay | 16 | 16 | DVP32EH00R3-L | |
| | 100~240V _{AC} | Transistor | 16 | 16 | DVP32EH00T3-L | |
| | 100~240V _{AC} | Transistor | 24 | 16 | DVP40EH00T3 | |
| | 100~240V _{AC} | Relay | 24 | 16 | DVP40EH00R3 | |
| | 100~240V _{AC} | Relay | 24 | 24 | DVP48EH00R3 | |
| | 100~240V _{AC} | Transistor | 24 | 24 | DVP48EH00T3 | |
| | 100~240V _{AC} | Relay | 32 | 32 | DVP64EH00R3 | |
| | 100~240V _{AC} | Transistor | 32 | 32 | DVP64EH00T3 | |
| | 100~240V _{AC} | Relay | 40 | 40 | DVP80EH00R3 | |
| | 100~240V _{AC} | Transistor | 40 | 40 | DVP80EH00T3 | |
| Execution time of basic instructions | | | | 0.24 μs | | |

DVP-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 | |
| | - | 32 | - | DVP32HM11N | |
| | Relay | - | 32 | DVP32HN00R | |
| | Transistor | - | 32 | DVP32HN00T | |
| | Relay | 16 | 16 | DVP32HP00R | |
| | Transistor | 16 | 16 | DVP32HP00T | |
| | 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) output¹⁾ 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, Pt1000, Ni100, Ni1000) sensor input¹⁾ / 0 ~ 300Ω or 0 ~ 3000Ω resistance input 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, E, N Type) sensor input¹⁾ / 0 ~ 150mV voltage input 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, E, N Type) sensor input¹⁾ / 0 ~ 150mV or ±150mV voltage input Resolution: 0.1°C Built-in RS-485 interface | | | | DVP08TC-H2 |
| | <ul style="list-style-type: none"> 4 channels of differential voltage (-10V ~ +10V) / current (-20mA ~ +20mA) input Resolution: 16-bit Built-in RS-485 interface | | | | DVP04AD-H3 |
| | <ul style="list-style-type: none"> 4 channels of voltage (-10V ~ +10V) / current (0 ~ +20mA) output Resolution: 16-bit Built-in RS-485 interface | | | | DVP04DA-H3 |
| | <ul style="list-style-type: none"> 4 channels of differential voltage (-10V ~ +10V) / current (-20mA ~ +20mA) input 2 channels of voltage (-10V ~ +10V) / current (0 ~ +20mA) output Resolution: 16-bit Built-in RS-485 interface | | | | DVP06XA-H3 |
| | <ul style="list-style-type: none"> 2 points of analog voltage (0 ~ 10V) / current (0 ~ 20mA) input Resolution: 12-bit | | | | |

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

DVP-EH3 Series Extension Module/Function Card

| Product Name | Description | Model Name | Certificates |
|----------------------|--|------------|--|
| Positioning Module | Servo position control module (single axis, 200 kHz) | 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 (DVP-EH2: COM2; DVP-EH3: COM3) | DVP-F232 |   |
| | RS-422 port conversion (DVP-EH2: COM2; DVP-EH3: COM3) | DVP-F422 | |
| | 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 | |
| | Ethernet communication card (compatible with controllers built-in with 32 I/O and above) | DVP-FEN01 | |
| | | | |
| | | | |

Ordering Information

DVP-S Series PLC

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|--|-------------------|------------------|-----------------------------------|---------|--------------------------------|--|
| DVP-SV2 Series Functional Slim PLC | 24V _{DC} | Relay | 16 | 12 | DVP28SV11R2 <small>New</small> |   |
| | 24V _{DC} | Transistor | 16 | 12 | DVP28SV11T2 <small>New</small> | |
| | 24V _{DC} | Transistor (PNP) | 16 | 12 | DVP28SV11S2 | |
| | 24V _{DC} | Transistor | 10 (2AI) | 12 | DVP24SV11T2 | |
| Execution time of basic instructions | | | 0.24 μs | | | |
| DVP-SS2 Series Standard Slim PLC | 24V _{DC} | Relay | 16 | 12 | DVP28SS211R <small>New</small> |   |
| | 24V _{DC} | Transistor | 16 | 12 | DVP28SS211T <small>New</small> | |
| | 24V _{DC} | Relay | 8 | 6 | DVP14SS211R | |
| | 24V _{DC} | Transistor | 8 | 6 | DVP14SS211T | |
| | 24V _{DC} | Transistor(PNP) | 8 | 4 | DVP12SS211S | |
| DVP-SA2 Series Advanced Slim PLC | 24V _{DC} | Relay | 16 | 12 | DVP28SA211R |   |
| | 24V _{DC} | Transistor | 16 | 12 | DVP28SA211T | |
| | 24V _{DC} | Relay | 8 | 4 | DVP12SA211R | |
| | 24V _{DC} | Transistor | 8 | 4 | DVP12SA211T | |
| DVP-SX2 Series Analog Slim PLC | 24V _{DC} | Relay | 8 (4AI) | 6 (2AO) | DVP20SX211R |   |
| | 24V _{DC} | Transistor | 8 (4AI) | 6 (2AO) | DVP20SX211T | |
| | 24V _{DC} | Transistor (PNP) | 8 (4AI) | 6 (2AO) | DVP20SX211S | |
| Fastest execution time of basic instructions | | 0.35 μs | Execution time of MOV instruction | | 3.4 μs | |
| DVP-SE Series Network Type Slim PLC | 24V _{DC} | Relay | 14 | 12 | DVP26SE11R <small>New</small> |   |
| | 24V _{DC} | Transistor | 14 | 12 | DVP26SE11T <small>New</small> | |
| | 24V _{DC} | Relay | 8 | 4 | DVP12SE11R | |
| | 24V _{DC} | Transistor | 8 | 4 | DVP12SE11T | |
| Fastest execution time of basic instructions | | 0.64 μs | Execution time of MOV instruction | | 2 μs | |
| DVP-SX Series Analog Slim PLC | 24V _{DC} | Relay | 4 (2AI) | 2 (2AO) | DVP10SX11R |   |
| | 24V _{DC} | Transistor | 4 (2AI) | 2 (2AO) | DVP10SX11T | |
| Fastest execution time of basic instructions | | 3.8 μs | Execution time of MOV instruction | | 5.04 μs | |

DVP-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 | |
| | Transistor (PNP) | - | 8 | DVP08SN11TS | |
| | Digital switch | 8 | - | DVP08ST11N | |
| | Relay | 8 | 8 | DVP16SP11R | |
| | Transistor (PNP) | 4 | 4 | DVP08SP11TS | |
| | Transistor (NPN) | 8 | 8 | DVP16SP11T | |
| | Transistor (PNP) | 8 | 8 | DVP16SP11TS | |
| | Transistor (PNP) | - | 16 | DVP16SN11TS | |
| | - | 16 | - | DVP16SM11N | |
| | Transistor, MIL | - | 32 | DVP32SN11TN | |
| | MIL | 32 | - | DVP32SM11N | |
| Product Name | Description | | | Model Name | Certificates |
| Analog I/O Module | ▪ 4 points of analog input voltage (-10V ~ +10V)/ current (-20 mA ~ +20 mA) ▪ Input resolution: 14-bit | ▪ Built-in RS-485 interface ▪ Differential input | | | DVP04AD-S2 |
| | ▪ 4 points of analog output voltage (0V ~ +10V)/ current (0 mA ~ +20 mA) | ▪ Output resolution: 12-bit ▪ Built-in RS-485 interface | | | DVP04DA-S2 |
| | ▪ Analog input+output module (6 points) ▪ 4 points of analog input voltage (-10V ~ +10V)/ current (-20 mA ~ +20 mA) | ▪ Input/output resolution: 12-bit ▪ Built-in RS-485 interface ▪ Differential input | | | DVP06XA-S2 |
| | ▪ 2 points of analog output voltage (0V ~ +10V)/ current (0 mA ~ +20 mA) | | | | |

DVP-S Series Analog Module

| Product Name | Description | | Model Name | Certificates |
|-------------------|---|---|------------|--|
| Analog I/O Module | ▪ 4 points of analog input voltage (-10V~+10V)/ current (-20mA~+20mA) ▪ Input resolution: 14-bit ▪ 4 points of analog output voltage (0V~+10V)/ current (0mA~+20mA) ▪ Output resolution: 12-bit ▪ 2 points of analog output voltage (0V~+10V)/ current (0mA~+20mA) ▪ Output resolution: 12-bit ▪ 6 points of analog input voltage (-10V~+10V)/ current (-20mA~+20mA) ▪ Input resolution: 14-bit ▪ Analog input+output modules (6 points) ▪ 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) ▪ 2 points of analog output voltage (0V~+10V)/current (0mA~+20mA) | ▪ Built-in RS-485 interface ▪ Single-ended input | DVP04AD-S |   |
| | ▪ Built-in RS-485 interface | | DVP04DA-S | |
| | ▪ Built-in RS-485 interface | | DVP02DA-S | |
| | ▪ Built-in RS-485 interface | | DVP06AD-S | |
| | ▪ Input/output resolution: 12-bit ▪ Built-in RS-485 interface ▪ Single-ended input | | DVP06XA-S | |
| | | | | |

DVP-S Series Extension Module/High-Speed Module (Left-side)

| Product Name | Description | | Model Name | Certificates |
|--|--|---|-------------|--|
| High-Speed Analog I/O Module (Left-side) | ▪ 4 groups of analog input *1 ▪ Signal range: 1~5V, 0~5V, -5~5V, 0~10V, -10~10V, 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 (1~5V, 4~20mA) ▪ 4 groups of analog output *1 ▪ Signal range: 0~10V, -10~10V, 4~20mA, 0~20mA ▪ Resolution: 16-bit ▪ Offers single channel On/Off setup ▪ Conversion time: 250µs/point | ▪ Built-in RS-485 interface ▪ Single-ended input | DVP04AD-SL |   |
| | | | DVP04DA-SL | |
| High-Speed Load Cell Module (Left-side) | ▪ 1 set of load cell module *1 ▪ Resolution: 24-bit ▪ Connectable to 4-wire/6-wire load cell sensor | ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V | DVP201LC-SL |   |
| | ▪ 1 set of load cell module *1 ▪ Resolution: 24-bit ▪ Connectable to 4-wire/6-wire load cell sensor | ▪ Measurable range: 0~80mV/V ▪ Built-in I/O control: 2DI/4DO/1AO | DVP211LC-SL | |
| | ▪ 2 sets of load cell module *1 ▪ Resolution: 24-bit ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~6mV/V | ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V | DVP202LC-SL | |
| | ▪ Supports 2 channels of load cell signal input *1 ▪ Resolution: 20-bit ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~6mV/V | | DVP02LC-SL | |
| | ▪ Supports 1 channel of load cell signal input *1 ▪ Resolution: 20-bit ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~6mV/V | | DVP01LC-SL | |
| | ▪ 6 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input ▪ Resolution: 0.1°C ▪ 4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input *1 (Version 4.06 and above supports Pt1000, Ni100, Ni1000) ▪ Resolution: 0.1°C ▪ Built-in RS-485 interface ▪ 4 points of thermocouple (J, K, R, S, T type) sensor input *1 ▪ Resolution: 0.1°C ▪ Built-in RS-485 interface | ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V | DVP06PT-S | |
| Temperature Measurement Module | ▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C ▪ 4 points of NPN transistor output: 24V _{dc} /300mA ▪ Output point: built-in PID program control/manual control | ▪ Measurable range: 0~80mV/V ▪ Built-in I/O control: 2DI/4DO/1AO | DVP04PT-S |   |
| | ▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C ▪ 4 points of relay output: 24V _{dc} /3A ▪ Output point: built-in PID program control/manual control | ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V | DVP02TUN-S | |
| | ▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C ▪ 4 points of analog output: 0~10V, 0~20mA, 4~20mA ▪ Output point: built-in PID program control/manual control | ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V | DVP02TUR-S | |
| | ▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C ▪ 2 points of analog output: 0~10V, 0~20mA, 4~20mA ▪ Output point: built-in PID program control/manual control | ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V | DVP02TUL-S | |
| | | | | |
| | | | | |

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

Ordering Information

DVP-S Series Extension Module/High-Speed Module (Left-side)

| Product Name | Description | Model Name | Certificates |
|---|--|-------------|--------------|
| Positioning Module | Servo position control module (single axis, 200 kHz) | 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 / 100 Mbps | DVPEN01-SL | |
| | DeviceNet master communication module, 500 Kbps | DVPDNET-SL | |
| | CANopen master communication module, 1 Mbps | DVPCOPM-SL | |
| | PROFIBUS DP slave communication module , 12 Mbps | DVPPF02-SL | |
| | RS-485/RS-422, serial communication module, 460 Kbps | DVPSCM12-SL | |
| | BACnet MS/TP Slave communication module, 460 Kbps | DVPSCM52-SL | |
| Remote I/O Module | RS-485 remote I/O module, connectable to DVP-S series I/O modules | RTU-485 | |
| | Ethernet remote I/O module, connectable to DVP-S series I/O modules | RTU-EN01 | |
| | DeviceNet remote I/O module, connectable to DVP-S series I/O modules | RTU-DNET | |
| | PROFIBUS remote I/O module, connectable to DVP-S series I/O modules | RTU-PD01 | |

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-422/485 isolated converter | IFD8500-A | |
| | RS-485 to RS-422 isolated repeater | IFD8510-A | |
| | RS-422/485 to RS-232 addressable isolated converter | IFD8520 | |

DVP-PM Series

| Product Name | Power Supply | Output Method | Inputs | Outputs | Model Name | Certificates |
|--------------------------------------|-------------------------------------|---|-----------------------------------|---------|-------------|--------------|
| Standard Motion Controller | 100 ~ 240V _{AC} | Differential | 16 | 16 | DVP10PM00M | |
| | | (Built-in 4-axis of independent 1MHz pulse output) | | | | |
| Advanced Motion Controller | 100 ~ 240V _{AC} | Differential | 8 | 8 | DVP20PM00DT | |
| | | (Built-in 2-axis of independent 500 kHz pulse output) | | | DVP20PM00D | |
| | | (Built-in 3-axis of independent 500 kHz pulse output) | | | DVP20PM00M | |
| Extension Module | Description | | | | Model Name | |
| DVP-PM communication card | Ethernet/CANopen communication card | | | | DVP-FPMC | |
| Execution time of basic instructions | 0.13 µs | | Execution time of MOV instruction | | 3.74 µs | |

DVP-MC Series

| Product Name | Power Supply | Communication Protocol | Axes Controlled | Inputs | Outputs | Model Name | Certificates |
|------------------------------|-------------------|------------------------|-----------------|--------|---------|-------------------------------|--------------|
| Multi-axis Motion Controller | 24V _{DC} | CANopen DS402 | 16 | 8 | 4 | DVP10MC11T | |
| | | | 24 | 16 | 8 | <small>New</small> DVP15MC11T | |

TP Series

| Product Name | Description | Model Name | Certificates |
|--------------|---|--|--------------|
| TP02 | Resolution: 160 x 32, Serial COM ports: RS-232 & RS-485 | TP02G-AS1 | |
| TP04 | Resolution: 128 x 64, Serial COM ports: RS-232 & RS-422/RS-485 | TP04G-AS2 | |
| | Resolution: 192 x 64, Serial COM ports: RS-232 & RS-422/RS-485 | TP04G-AL2 | |
| | Resolution: 192 x 64, Serial COM ports: RS-232 | TP04G-AL-C | |
| | Resolution: 192 x 64, Serial COM ports: RS-232 & RS-422/RS-485, 0 ~ 9 numeric keys available | TP04G-BL-C | CE |
| TP04P | Resolution: 192 x 64, Serial COM ports: USB & RS-485 | 8DI 8DO - - - Relay TP04P-16TP1R 8DI 16DO - - - Relay TP04P-32TP1R 8DI 8DO 4AI 2AO - Relay TP04P-22XA1R 8DI 8DO 2AI 1AO 2PT Relay TP04P-21EX1R | |
| TP70P | Resolution: 800 x 400 Serial COM ports: USB & RS-485 | 8DI 8DO - - - Relay TP70P-16TP1R 16DI 16DO - - - Relay TP70P-32TP1R 8DI 8DO 4AI 2AO - Relay TP70P-22XA1R 8DI 8DO 2AI 1AO 2PT Relay TP70P-21EX1R | CE |
| TP08 | Resolution: 240 x 128, Serial COM ports: RS-232 & RS-422/RS-485, 0 ~ 9 numeric keys available | TP08G-BT2 | |

Software

| Product Name | Description | OS (Windows based software) |
|-------------------|---|---|
| ISPSofT | PLC editing software for DVP and AH500 Series (supports 5 programming languages: LD, FBD, SFC, ST, IL) | Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| WPLSoft | Programming software for DVP Series | Windows 98, Me, NT4.0, 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| TPEditor | Editing software for TP Series | Windows 98, Me, NT4.0, 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| PMSoft | Programming software for DVP-PM series | Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| DCISoft | Delta communication integration software | Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| DeviceNet Builder | DeviceNet configuration software | Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| CANopen Builder | CANopen configuration software | Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit) |
| NetView Builder | CAN bus message analysis software | Windows 2000, XP, Vista, Windows 7 (32-bit) |

Starter Kit

| Product Name | Model Name | Contents |
|------------------------------|------------|--|
| New Delta PLC Starter Kit | UT-14SS2-A | DVP14SS211R (PLC), DOP-B07S410 (HMI) and accessory |
| | UT-12SE-A1 | DVP12SE11R (PLC), DOP-B07E411 (HMI) and accessory |

Industrial Power Supply

| Series | Power Supply | Inputs | Outputs | Power | Output Current | Model Name | Certificates |
|--------|--------------|-----------------------|-------------------|-------|----------------|------------|--------------|
| DVP | 1-phase | 85~264V _{AC} | 24V _{DC} | 24W | 1A | DVPPS01 | |
| | | | | 48W | 2A | DVPPS02 | CE |
| | | | | 120W | 5A | DVPPS05 | UL |

*Note: For more ordering information, please refer to the catalogue for Delta Industrial Power Supply.

Ordering Information

Accessories

| Type | Model name | Description | Specification | | Applicable Modules |
|---|---------------|--|---------------|---|---|
| | | | Length | Connector / Terminal block | |
| PLC Programming and Serial Communication Cable | UC-PRG015-01A | Communication cable for PLC (mini USB) to PC | 1.5m | PC (USB ↔ mini USB) PLC | DVP-SE/DVP-SX2/AH500 |
| | UC-PRG015-02A | Communication cable for TP (USB B type) to PC | 1.5m | PC (USB ↔ USB B type) TP | TP70P/TP04P / DOP |
| | UC-PRG020-12A | Communication cable for PLC (DB9 female / 8-pin mini-DIN male) to PC | 2m | PC (DB9 female ↔ 8-pin mini-DIN male) PLC | DVP/TP RS-232 |
| | UC-PRG030-01A | Communication cable for PLC (mini USB) to PC | 3m | PC (USB ↔ mini USB) PLC | DVP-SE/SX2 AH500 |
| | UC-PRG030-02A | Communication cable for TP (USB B type) to PC | 3m | PC (USB ↔ USB B type) TP | TP70P / TP04P / DOP |
| | UC-PRG030-10A | Communication cable for PLC / HMI / TP (DB9 female) to PC | 3m | PC (DB9 female ↔ DB9 female) PLC/HMI/TP | PLC/HMI/TP (DB9 female) |
| | UC-PRG030-20A | Communication cable for PLC / HMI (RJ45) to PC | 3m | PC (RJ45 ↔ RJ45) PLC/HMI | DVP-SE DVPEN02-L AHCPU5 □ -EN AH10EN-5A |
| | UC-MS010-02A | Communication cable for PLC (8-pin mini-DIN male) to PC | 1m | PC (DB9 female ↔ 8-pin mini-DIN male) PLC | |
| | UC-MS020-01A | Communication cable for PLC (8-pin mini-DIN male) to PC | 2m | PC (DB9 female ↔ 8-pin mini-DIN male) PLC | |
| | UC-MS020-06A | Communication cable for PLC (8-pin mini-DIN male) to HMI | 2m | HMI (DB9male ↔ 8-pin mini-DIN male) PLC | DVP PLC RS-232 |
| | UC-MS030-01A | Communication cable for PLC (8-pin mini-DIN male) to PC | 3m | PC (DB9 female ↔ 8-pin mini-DIN male) PLC | |
| | UC-MS030-06A | Communication cable for PLC (8-pin mini-DIN male) to HMI | 3m | HMI (DB9male ↔ 8-pin mini-DIN male) PLC | |
| I/O External Terminal Module | UC-ET010-24A | I/O extension cable for connecting external terminal modules | 1m | PLC (MILIDC40 ↔ IDC40) external terminal modules | DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A |
| | UC-ET010-24B | I/O extension cable for connecting external terminal modules | 1m | PLC (MILIDC40 ↔ IDC40) external terminal modules (shielded wire) | DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A |
| | UC-ET010-24C | I/O extension cable for connecting external terminal modules | 1m | PLC (MILIDC40 ↔ IDC20x2) external terminal modules | DVP32SN11TN ↔ UB-10-OR16A |
| | UC-ET010-24D | I/O extension cable for connecting external terminal modules | 1m | PLC (MILIDC40 ↔ IDC20x2) external terminal modules (shielded wire) | DVP32SN11TN ↔ UB-10-OR16A |
| | UC-ET020-24B | I/O extension cable for connecting external terminal modules | 2m | PLC (MILIDC40 ↔ IDC40) external terminal modules (shielded wire) | DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A |
| | UC-ET020-24D | I/O extension cable for connecting external terminal modules | 2m | PLC (MILIDC40 ↔ IDC20x2) external terminal modules (shielded wire) | DVP32SN11TN ↔ UB-10-OR16A |
| | UC-ET030-24B | I/O extension cable for connecting external terminal modules | 3m | PLC (MILIDC40 ↔ IDC40) external terminal modules (shielded wire) | DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A |
| | UC-ET030-24D | I/O extension cable for connecting external terminal modules | 3m | PLC (MILIDC40 to IDC20x2) external terminal modules (shielded wire) | DVP32SN11TN ↔ UB-10-OR16A |
| Motion Control Cable / Industrial Communication Cable | UC-CMC003-01A | CANopen communication cable | 0.3m | -- | DVPCOPM-SL DVP10MC11T DVP15MC11T New DVPCP02-H2 TAP-CN03 |
| | UC-CMC005-01A | CANopen communication cable | 0.5m | -- | |
| | UC-CMC010-01A | CANopen communication cable | 1m | -- | |
| | UC-CMC015-01A | CANopen communication cable | 1.5m | -- | |
| | UC-CMC020-01A | CANopen communication cable | 2m | -- | |
| | UC-CMC030-01A | CANopen communication cable | 3m | -- | |
| | UC-CMC050-01A | CANopen communication cable | 5m | -- | |
| | UC-CMC100-01A | CANopen communication cable | 10m | -- | |
| | UC-CMC200-01A | CANopen communication cable | 20m | -- | |
| | UC-EMC003-02A | EtherCAT communication cable | 0.3m | -- | AH10EMC-5A |

Accessories

| Type | Model Name | Description | Specification | | Applicable Modules |
|--------------------------------|--|---|------------------------------------|--|----------------------------------|
| | | | Length | Connector/Terminal Block | |
| Industrial Communication Cable | UC-DN01Z-01A | DeviceNet/CANopen communication cable (Trunk cable - thick) | On customer's demand (up to 305 m) | -- | DeviceNet/CANopen related models |
| | UC-DN01Z-02A | DeviceNet/CANopen communication cable (Drop cable - thin) | | -- | |
| | UC-PF01Z-01A | PROFIBUS communication cable | | -- | PROFIBUS related models |
| External Terminal Module | UB-10-OR16A | external terminal module for DVP32SN output module | -- | 16-point relay output, 20-pin MIL | DVP32SN11TN |
| | UB-10-OT32A | external terminal module for DVP32SN output module | -- | 32-point transistor output, 40-pin MIL | DVP32SN11TN |
| | UB-10-ID32A | external terminal module for DVP32SM digital input module | -- | 32-point input, MIL | DVP32SM11TN |
| Connector | UN-03EN-04A | RJ45 connector | -- | -- | -- |
| | UN-03PF-01A | PROFIBUS connector | -- | -- | PROFIBUS related models |
| | UN-03PF-02A | PROFIBUS connector | -- | -- | |
| | UN-03PF-03A | PROFIBUS connector | -- | -- | |
| Peripheral Accessory | Data backup memory card (DVP-EH3 only) | | | | DVP-512Fm |
| | Data backup memory card (64k words) | | | | DVPPCC01 |
| | Communication cable for PC (9-pin & 25-pin D-Sub) and PLC, 3m | | | | DVPACAB230 |
| | 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 DVP-ES/EX Series, 0.3m | | | | DVPACAB403 |
| | Extension cable for DVP-EH series PLC and extension module, 0.7m | | | | DVPACAB4A07 |
| | DeviceNet/CANopen distribution box, 1 for 2 | | | | TAP-CN01 |
| | DeviceNet/CANopen distribution box, 2 for 3 | | | | TAP-CN02 |
| | DeviceNet/CANopen distribution box, 2 for 3 RJ45 | | | | TAP-CN03 |
| | 3.6V lithium battery (unchargeable) for DVP-EH/SX Series PLC | | | | DVPABT01 |
| | Terminal resistance for CANopen communication (RJ45) | | | | TAP-TR01 |
| | Programming cable for TP Series | | | | UCPRG030-10A |



Smarter. Greener. Together.

Industrial Automation Headquarters

Delta Electronics, Inc.

Taoyuan Technology Center
18 Xinglong Road, Taoyuan District,
Taoyuan City 33068, Taiwan (R.O.C.)
TEL: 886-3-362-6301 / FAX: 886-3-371-6301

Asia

Delta Electronics (Jiangsu) Ltd.

Wujiang Plant 3
1688 Jiangxing East Road,
Wujiang Economic Development Zone
Wujiang City, Jiang Su Province, P.R.C. 215200
TEL: 86-512-6340-3008 / FAX: 86-769-6340-7290

Delta Greentech (China) Co., Ltd.

238 Min-Xia Road, Pudong District,
ShangHai, P.R.C. 201209
TEL: 86-21-58635678 / FAX: 86-21-58630003

Delta Electronics (Japan), Inc.

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

Delta Electronics (Korea), Inc.

1511, Byucksan Digital Valley 6-cha, Gasan-dong,
Geumcheon-gu, Seoul, Korea, 153-704
TEL: 82-2-515-5303 / FAX: 82-2-515-5302

Delta Electronics Int'l (S) Pte Ltd.

4 Kaki Bukit Ave 1, #05-05, Singapore 417939
TEL: 65-6747-5155 / FAX: 65-6744-9228

Delta Electronics (India) Pvt. Ltd.

Plot No 43 Sector 35, HSIIDC
Gurgaon, PIN 122001, Haryana, India
TEL : 91-124-4874900 / FAX : 91-124-4874945

Americas

Delta Products Corporation (USA)

Raleigh Office
P.O. Box 12173, 5101 Davis Drive,
Research Triangle Park, NC 27709, U.S.A.
TEL: 1-919-767-3800 / FAX: 1-919-767-8080

Delta Greentech (Brasil) S.A.

Sao Paulo Office
Rua Itapeva, 26 - 3º andar Edificio Itapeva One-Bela Vista
01332-000-São Paulo-SP-Brazil
TEL: 55 11 3568-3855 / FAX: 55 11 3568-3865

Europe

Delta Electronics (Netherlands) B.V.

Eindhoven Office
De Witbogt 20, 5652 AG Eindhoven, The Netherlands
TEL: +31 (0)40-8003800 / FAX: +31 (0)40-8003898

*We reserve the right to change the information in this catalogue without prior notice.