



Digitized Automation for a Changing World

Delta Programmable Logic Controller DVP Series



reddot design award
winner 2010

www.deltaww.com

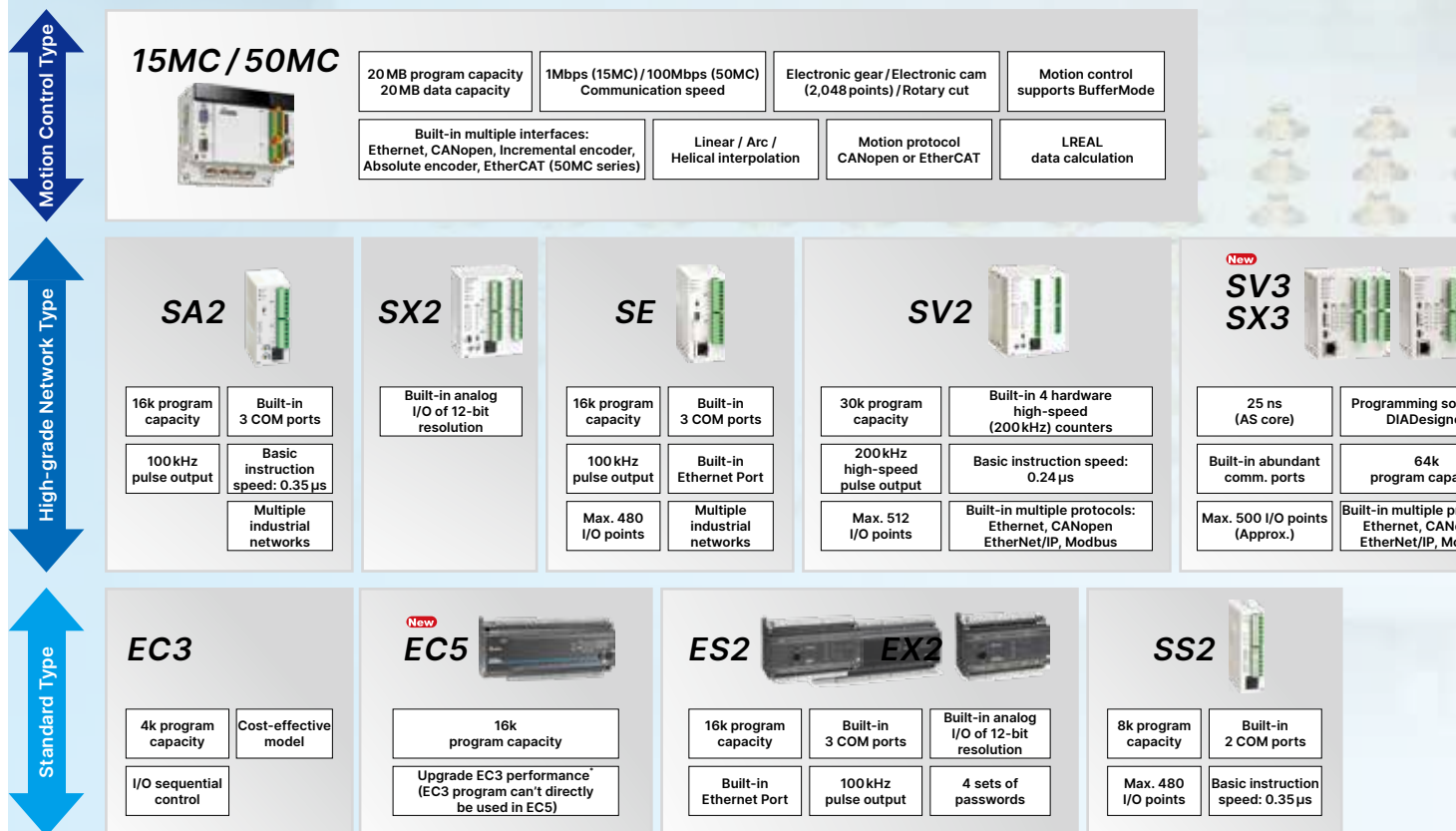


The Perfect Small PLC Revolution!

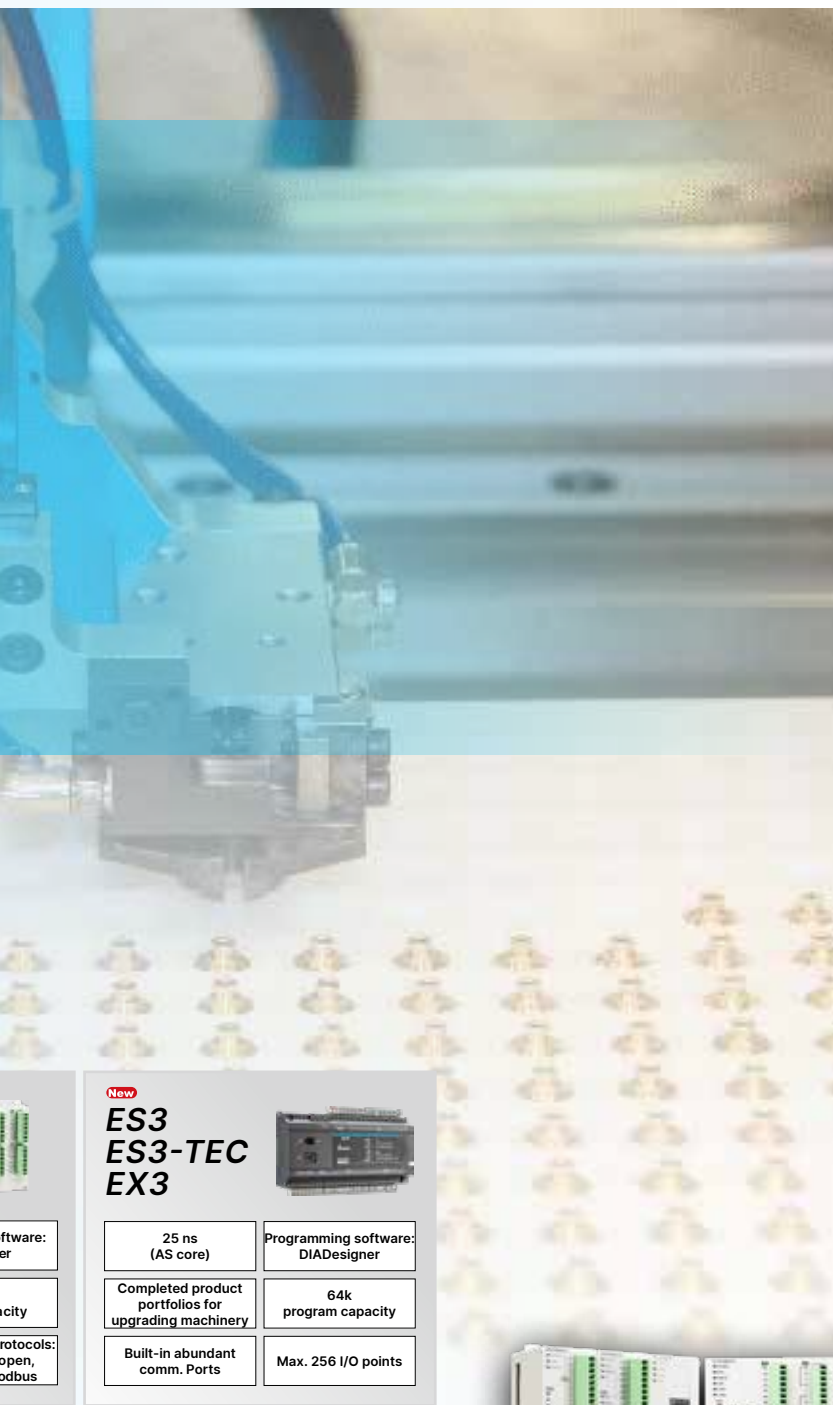
After launching our first DVP series PLCs for industrial automation applications, Delta has been devoted to delivering more innovative products that satisfy customers' needs and meet the requirements of a wide variety of applications.

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 provide complete industry-focused solutions, motion control solutions, and industrial fieldbus solutions with Delta's new PLC series. We also 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.

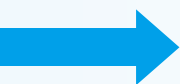


DVP Series PLCs - Best solution among controllers of the same level



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NEW

The 3rd Generation DVP-ES Series PLC Gives You a Better Control Experience with its NEW CPU

The option for upgrading machines with multi-functions



AS Core inside



The 3rd DVP generation Standard / EtherCAT / AIO brick PLC DVP-ES3 / ES3-TEC / EX3

- ▶ Min. execution time of basic instruction: 25 ns (adopts the compact AS Series PLC)
- ▶ 64K program capacity
- ▶ Max. 256 points for the total of inputs and outputs (Max. 8 x AIO extension modules)
- ▶ Built-in 2 x RS-485, AIO (EX3 only), Micro SD card
- ▶ Supports EtherCAT* (ES3-TEC only), EtherNet/IP Scanner/Adapter, Modbus TCP, CANopen DS301 (ES3 & EX3 only) controls up to 64 slaves
- ▶ Delta mode: controls 8 Delta servos and 8 Delta motor drives (ES3 & EX3 only)

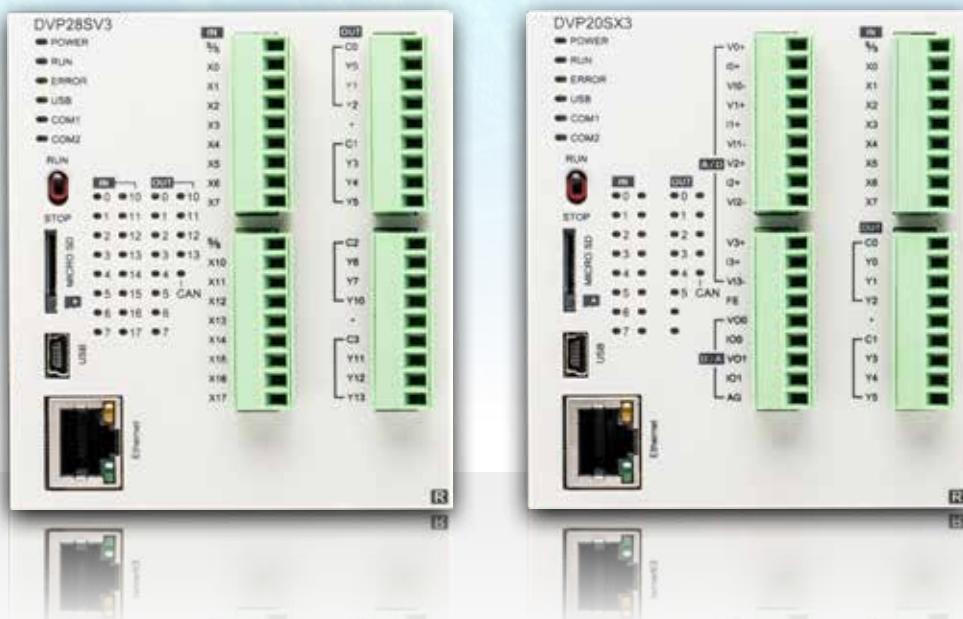
*Only support Delta servo (ASDA-A2-E, ASDA-A3-E and ASDA-B3-E) and Delta VFDs (C2000 and CH2000 series) up to 16 axes

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

The recommend for upgrading compact machines



AS Core inside



The 3rd DVP generation Standard / AIO slim PLC DVP-SV3 / SX3

- ▶ Min. execution time of basic instruction: 25 ns (adopts the compact AS Series PLC)
- ▶ 64K program capacity
- ▶ 512 points (256 inputs + 256 outputs, including of its built-in 16 inputs and 16 outputs), both left and right side expansion up to 8 modules per each side
- ▶ Built-in 2 x RS-485, AIO (SX3 only), Micro SD card
- ▶ Supports EtherNet/IP Scanner/Adapter, Modbus TCP, CANopen DS301 (controls up to 64 slaves)
- ▶ Delta mode: controls 8 Delta servos and 8 Delta motor drives



Basic Brick 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. 10 kHz) 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

DVP-EC5 New

Currently using DVP-EC3 series but demand upgrade for performance

- ▶ Built-in I/O: 32/48/60
- ▶ Program capacity: 16 k steps
- ▶ Supports 4 points high-speed pulse output 50 kHz, 2 points high-speed pulse input 50 kHz
- ▶ 8 points external interrupts

Built-in High-Speed Counters

1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Counters	Bandwidth	Counters	Bandwidth	Counters	Bandwidth
2	50kHz	2	50kHz	1	25kHz

The 2nd Generation 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: 16/20/24/32/40/60/80 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: 16 k steps
- ▶ Data register: 10 k words
- ▶ Max. execution speed of basic instructions: 0.35 μs
- ▶ RTC function and file register (5 k words) (hardware version 2.0 and above)
- ▶ Highly efficient processing ability: 1 k steps of programs can be completed within 1 ms
- ▶ 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



Built-in CANopen Brick PLC 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
- ▶ Built-in 1 RS-232 and 1 RS-485 ports

Built-in Ethernet Brick PLC 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)
- ▶ Built-in 1 RS-232 and 2 RS-485 ports

Built-in AIO Brick PLC DVP30EX200R / T

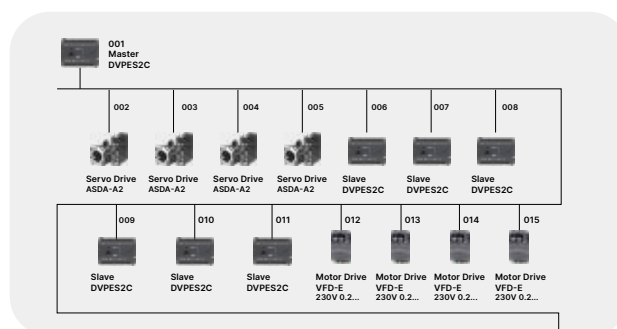
Integrated controller for temperature control and analog input

- ▶ 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

Fast processing speed



High-speed industrial network: CANopen



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 ~ 10 V	Spec.	0 ~ 20 mA or -10 ~ 10 V

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



The 3rd DVP Generation Standard / EtherCAT / AIO Brick PLC

DVP-ES3 / ES3-TEC / EX3 New

The option for upgrading machines with multi-functions

- ▶ Support EtherCAT[®] (ES3-TEC only), EtherNet/IP Scanner/Adapter, Modbus TCP, CANopen DS301 (ES3 & EX3 only) controls up to 64 slaves
 - ▶ Delta mode: controls 8 Delta servos and 8 Delta motor drives (ES3 & EX3 only)
- * Only support Delta servo (ASDA-A2-E, ASDA-A3-E and ASDA-B3-E) and Delta VFDs (C2000 and CH2000 series) up to 16 axes

DVP Brick Type PLC	ES3	EX3	ES3-TEC
Model	DVP32ES300*T/R** DVP32ES311***T DVP48ES300T/R DVP64ES300T/R DVP80ES300T/R	DVP22EX300T DVP22EX300R DVP28EX300MT**** DVP36EX300T DVP36EX300R	DVP32ES300TEC (NPN output)
Program Capacity	64k Steps		
Software	ISPSoft, DIADesigner		
Execution Speed	25ns, support AS APIs		
Max. I/O Points	256 points		
DIO & AIO Points	32: 16DI + 16DO 48: 24DI + 24DO 64: 32DI + 32DO 80: 40DI + 40DO	22: 12DI + 8DO + 2AI 28: 4 diff. DI + 8DI + 4 diff. DO + 8DO + 2AI + 2AO 36: 16DI + 16DO + 2AI + 2AO	32: 16DI + 16DO
Ethernet Port	1	2	1
SD Card	Micro SDHC, Max. 32G		
USB	Mini USB, B type		
RS485	2 x RS485		
CAN Port	1	1	X
EtherCAT Port	X	X	1

300: AC power | T*: NPN output | R*: Relay out | 311*: DC power | MT****: diff



The 3rd DVP Generation Standard / AIO Slim PLC

DVP-SV3/SX3 New

The recommend for upgrading compact machines

- ▶ Support EtherNet/IP Scanner/Adapter, Modbus TCP, CANopen DS301 (controls up to 64 slaves)
- ▶ Delta mode: controls 8 Delta servos and 8 Delta motor drives

DVP Slim Type PLC	SV3	SX3
Model	DVP28SV311T* DVP28SV311R** DVP28SV311S***	DVP20SX311T DVP20SX311R DVP20SX311S
Program Capacity	64k Steps	
Software	DIADesigner	
Execution Speed	25 ns, support AS APIs	
Max. I/O Points	512 points (256 inputs + 256 outputs, including of its built-in 16 inputs and 16 outputs)	
DIO & AIO Points	28: 16DI + 12DO	20: 8DI + 6DO + 2AO + 4AI
Ethernet Port	1	1
SD Card	Micro SDHC, Max. 32G	
USB	Mini USB, B type	
RS485	2 x RS485	
CAN Port	1	1

T*: NPN output | R**: Relay out | S***: PNP output



The 2nd Generation High Performance Slim PLC DVP-SV2

Well address performances from small to middle machines

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 μs

The DVP-24SV2 model has a built-in 2AI (12-bit) with Y10/Y12 of 10 kHz 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	10 kHz	4	200 kHz	4	200 kHz4	4	200 kHz

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



The 2nd Generation 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
- ▶ Max. execution speed of basic instructions: 0.35 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 10kHz pulse output
- ▶ 8 points of high-speed counters: 20kHz/4 points, 10kHz/4 points

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

The 2nd Generation Advanced Slim PLC DVP-SA2

Advanced model supporting 2-axis interpolation

- ▶ 32-bit CPU for high-speed processing
- ▶ Program capacity: 16k steps
- ▶ Data register: 10k words
- ▶ Max. execution speed of basic instructions: 0.35 μ s
- ▶ Built-in 1 RS-232 and 2 RS-485 ports (Master/Slave)
 - ※ Note: RS-485 will be reduced to 1 port in DVP28SA2
- ▶ 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)
 - ※ Note: DVP28SA2 only supports right-side modules

Motion Control Functions

- ▶ 4 points of high-speed pulse output: 100kHz/2 points, 10kHz/2 points
- ▶ 8 points of high-speed pulse input: 100kHz/2 points, 10kHz/6 points, 1 set of A/B phase 50kHz
- ▶ 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	100kHz/10kHz	2	100kHz	1/3	50kHz/5kHz



The 2nd Generation AIO Slim PLC DVP-SX2

Analog model with highly efficient PID control function

- ▶ 32-bit CPU for high-speed processing
- ▶ Program capacity: 16k steps
- ▶ Data register: 10k words
- ▶ Max. execution speed of basic instructions: 0.35μs
- ▶ 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 -10 V ~ 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: 16k steps
- ▶ Data register: 12k words
- ▶ Max. execution speed of basic instructions: 0.64μs
- ▶ Built-in Ethernet
 - DVP12SE : Modbus & Ethernet/IP (Explicit message)
 - DVP26SE : Modbus & Ethernet/IP (Adapter mode, explicit message)
- ▶ Built-in mini USB port, RS-485 port*2 and Ethernet port that supports Modbus TCP and EtherNet/IP Slave (adapter)
 - ※ Note: RS-485 will be reduced to 1 port in DVP26SE
- ▶ IP Filter functions as firewall for first line protection against malware and network threats
- ▶ Supports DVP-S Series modules (left-side and right-side)
 - ※ Note: 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

Multi-Axis Motion Controller

DVP-MC

The DVP15MC/DVP50MC Series is a multi-axis motion controller designed for the CANopen / EtherCAT network architecture. It supports CANopen/EtherCAT with built-in motion control instructions (BufferMode and Jerk) for flexible configuration and fast project development. DVP15MC/DVP50MC controls up to 32 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.

DVP15MC/DVP50MC 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/EtherCAT for printing, packaging, wire cutting, robots and other automation control industries.

Motion Control

- Up to 32 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:
 - DVP15MC: 4 axes in 2ms, 8 axes in 4ms
 - DVP50MC: 32 axes in 1ms
- Program capacity: 20 MB
- Data capacity: 20 MB

External Interfaces

- 1 CANopen port as host or slave station
- 1 Motion port (DVP15MC: CANopen, DVP50MC: EtherCAT)
- 16 high-speed inputs / 8 high-speed outputs
- 2 incremental encoder interfaces
- 1 SSI absolute encoder interface
- Ethernet port: DVP15MC x2, DVP50MC x1
- 1 SD card slot
- 1 RS-232 port and 1 RS-485 port
- Extension:
 - Left-side: supports up to 8 DVP-S Series modules (AIO Slave)
 - Right-side: compatible with DVP-S Series modules (240 DI, 240 DO and 8 special modules)

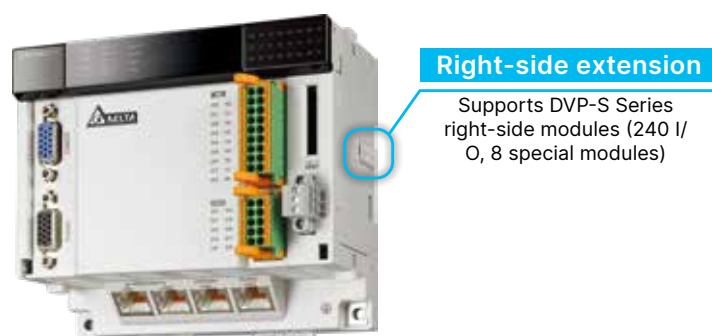
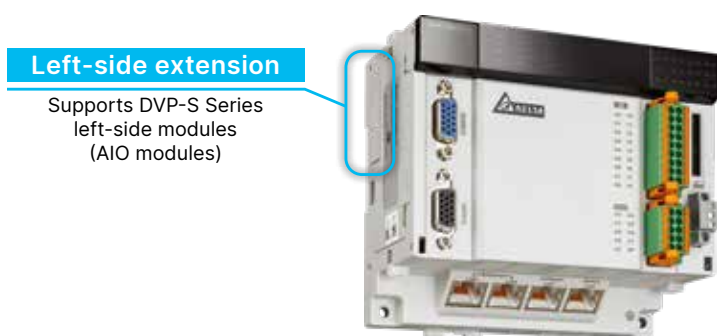
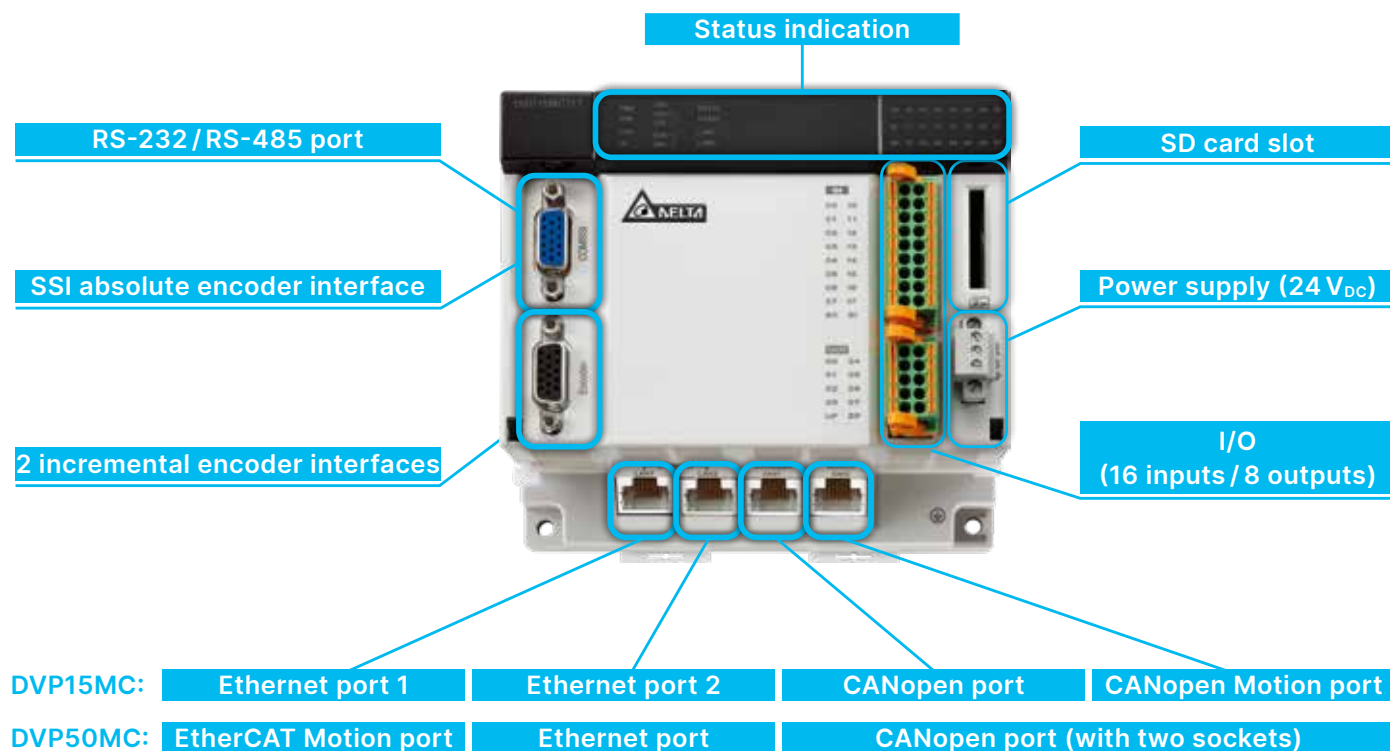
Motion Network and Wiring

- DVP15MC
 - Motion network: CANopen
 - Communication speed: Max. 1Mbps
 - Distance: Max. 100m (at 500 kbps)
- DVP50MC
 - Motion network: EtherCAT
 - Communication speed: Max. 100Mbps
 - Distance: Max. 50m (Node-to-node)
- Simple wiring, plug-and-play



DVP15MC / DVP50MC Interface

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

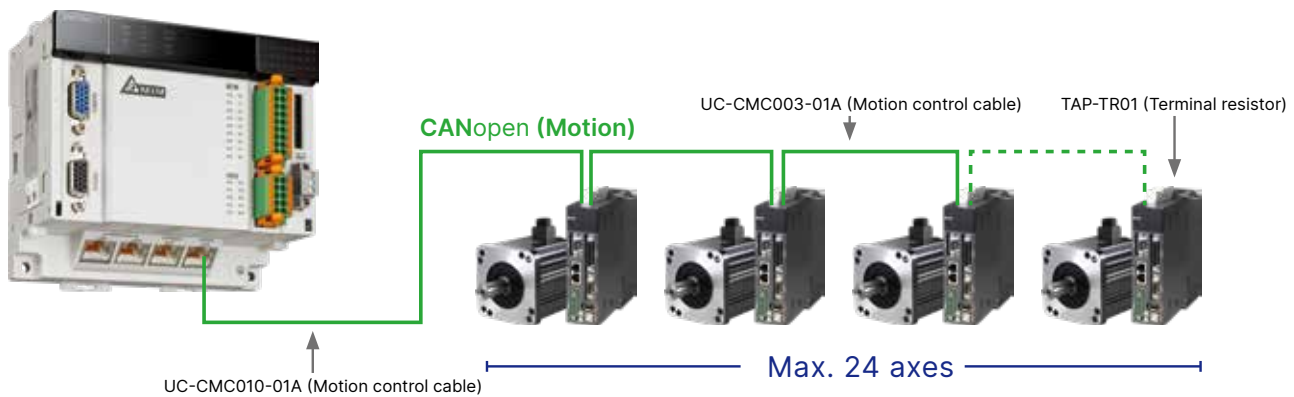


Simple Wiring, Plug-and-Play Motion Control Network

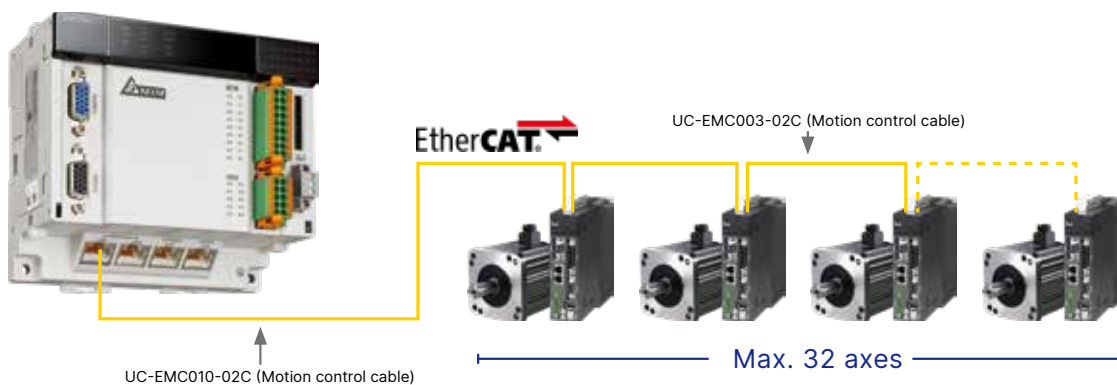
The DVP15MC / DVP50MC features stable CANopen / EtherCAT communication, simple wiring, plug-and-play functions, and communicates with servo drives (axes) via CANopen/EtherCAT network. Delta provides communication cable, terminal resistor and distribution box.

*Please refer to "Accessories" for detailed information

DVP15MC:



DVP50MC:



Compatible with Servo Drives via Motion Port

- Delta's AC Motor Drives ASDA-A2-XXXX*-M / ASDA-A2-XXXX*-MN models support CANopen communication, and they are the only models that can be connected to a DVP10MC11T for motion control networks.
- Delta's AC Motor Drives ASDA-A3-XXXX*-M / ASDA-A2-XXXX*-M / ASDA-B3-XXXX*-M models support CANopen communication, and they are the only models that can be connected to a DVP15MC CANopen (Motion) port for motion control networks.
- Delta's AC Motor Drives ASDA-A3-XXXX*-E / ASDA-A2-XXXX*-E / ASDA-B3-XXXX*-E models support EtherCAT communication, and they are the only models that can be connected to a DVP50MC EtherCAT (Motion) port for motion control networks.

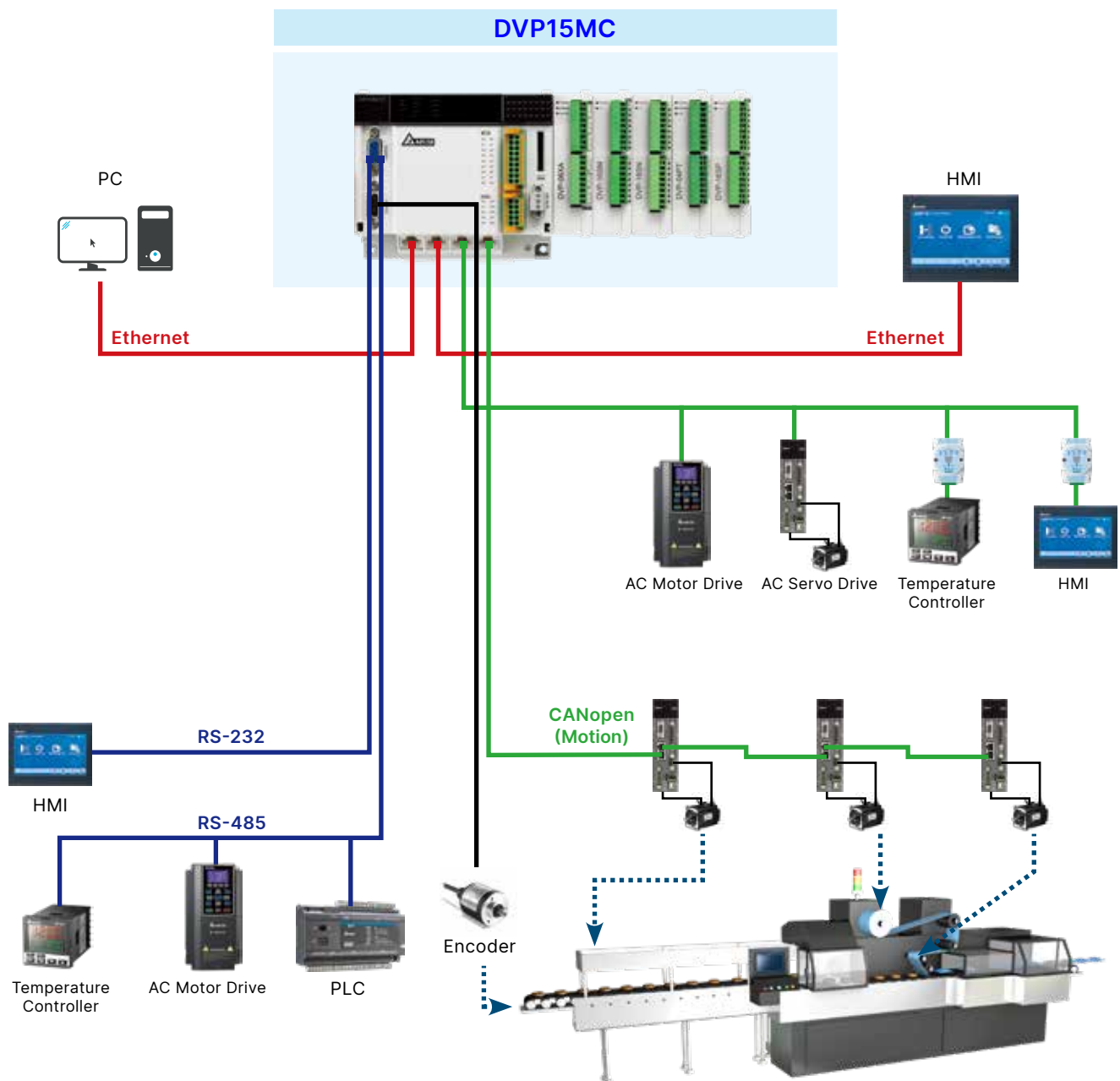
The standard CANopen port of DVP15MC / DVP50MC can be connected to all equipment that supports CANopen networks. The ASDA-A3 / A2 / B3 Series models provide high positioning accuracy and low-speed operation stability.

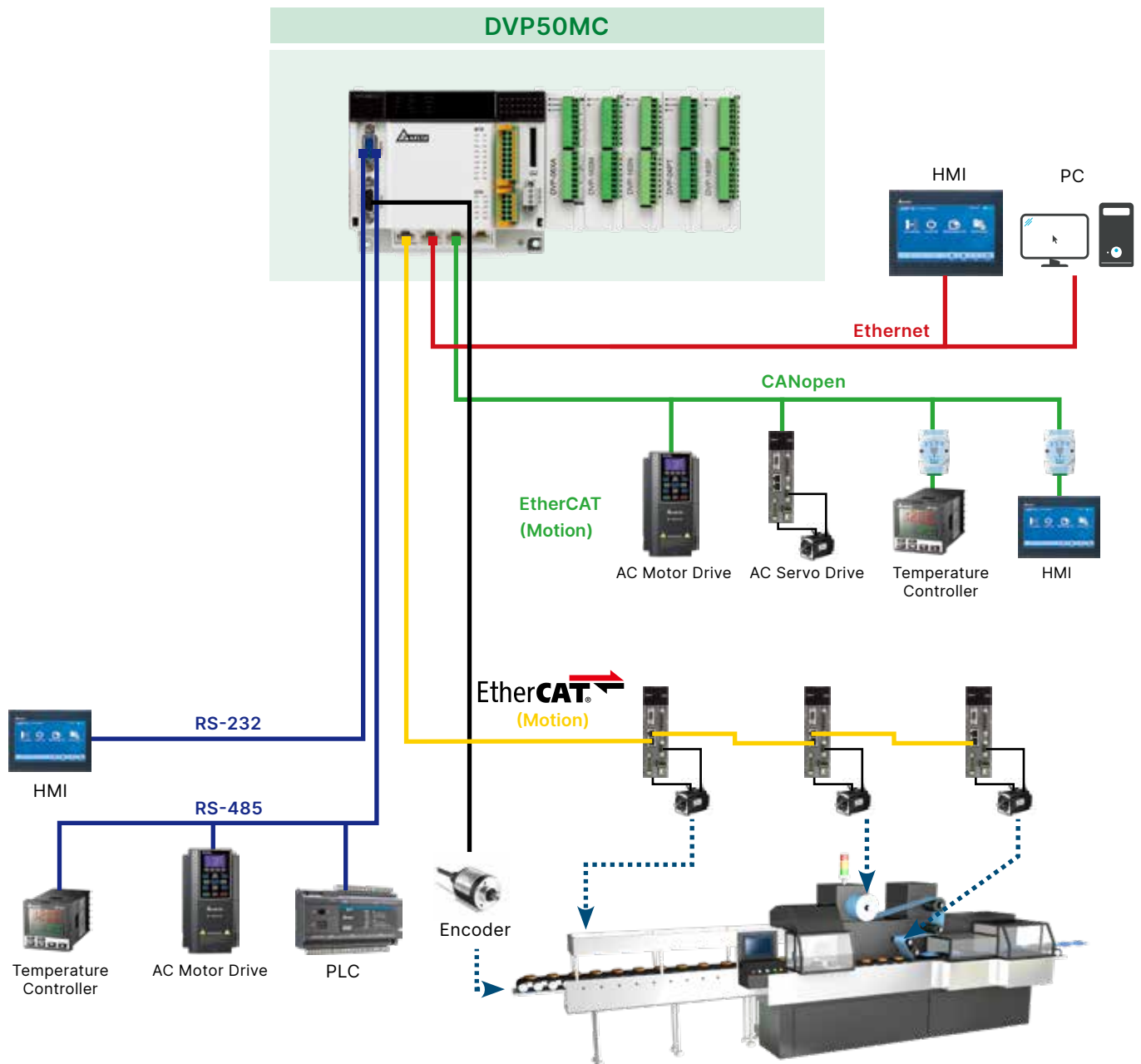
* XXXX represents output power and input voltage



System Structure

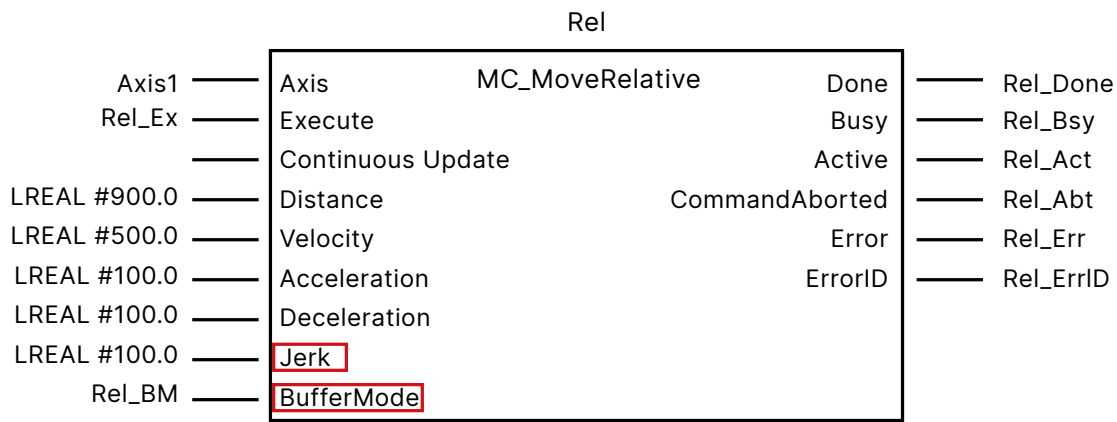
DVP15MC/DVP50MC provides multiple industrial networks. As in the structure shown below, DVP15MC/DVP50MC can be connected to a variety of industrial automation equipment via Ethernet (upper layer), EtherCAT, CANopen, DeviceNet and RS-485 (lower layer, support Modbus).





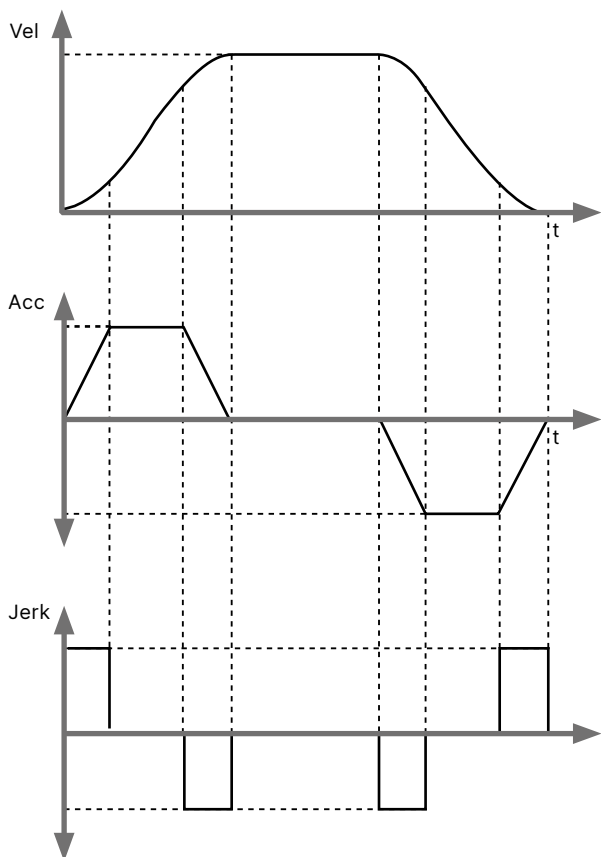
Motion Control

Supports BufferMode and Jerk motion instructions:



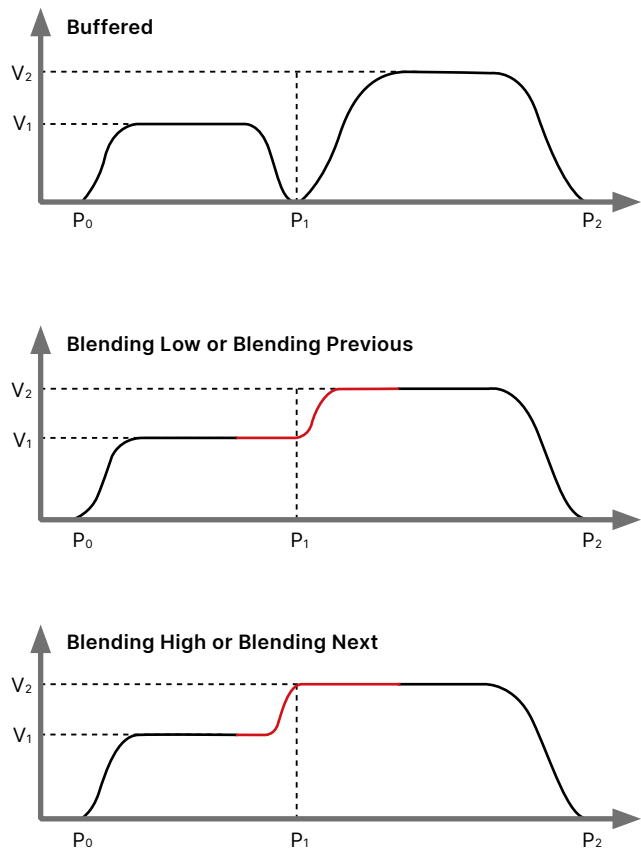
Supports Jerk motion instruction:

Modifies 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

■ Network Arrangement

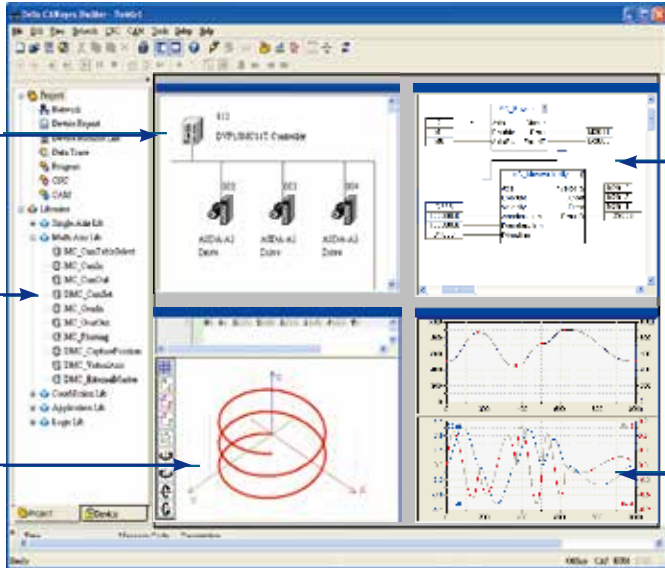
Network scanning for listing all the equipment

■ 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-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.



The 3rd DVP generation Standard / EtherCAT / AIO (DVP-ES3 / ES3-TEC / EX3 Series) and Extension Modules

The option for upgrading machines
with multi-functions

Model Name	Specifications					
DVP32ES300R	Ⓐ	16	16	R	□	2 ^E
DVP32ES300T	Ⓐ	16	16	T	□	2 ^E
DVP32ES311T	Ⓐ	16	16	T	□	2 ^E
DVP48ES300R	Ⓐ	24	24	R	□	2 ^E
DVP48ES300T	Ⓐ	24	24	T	□	2 ^E
DVP64ES300R	Ⓐ	32	32	R	□	2 ^E
DVP64ES300T	Ⓐ	32	32	T	□	2 ^E
DVP80ES300R	Ⓐ	40	40	R	□	2 ^E
DVP80ES300T	Ⓐ	40	40	T	□	2 ^E
New DVP32ES300TEC	Ⓐ	16	16	T	EtherCAT	2 ^E
New DVP22EX300R	Ⓐ	12	8	R	□	2AI
New DVP22EX300T	Ⓐ	12	8	T	□	2AI
New DVP28EX300MT	Ⓐ	8	8	T	M	4*diff.DI / DO +2AI+2AO
New DVP36EX300R	Ⓐ	16	16	R	□	2AI+2AO
New DVP36EX300T	Ⓐ	16	16	T	□	2AI+2AO

Ⓐ AC power supply ⤵ Inputs ⤵ Transistor output 2^E Ethernet
 Ⓐ DC power supply ⤵ Outputs ⤵ Relay output □ CANopen
 ⤵ Diff. output EtherCAT



Standard / AIO PLC (DVP-ES2 / EX2 Series) and Extension Modules

The Most Profitable Solution for Sequential Control

Model Name	Specifications					
DVP16ES200R	Ⓐ	8	8	R		
DVP16ES200T	Ⓐ	8	8	T		
DVP20ES200RE	Ⓐ	12	8	R		2 ^E
DVP20ES200TE	Ⓐ	12	8	T		2 ^E
DVP24ES200R	Ⓐ	16	8	R		
DVP24ES200T	Ⓐ	16	8	T		
DVP32ES200R	Ⓐ	16	16	R		
DVP32ES200T	Ⓐ	16	16	T		
DVP32ES211T	Ⓐ	16	16	T		
DVP32E200RC	Ⓐ	16	16	R	□	
DVP32E200TC	Ⓐ	16	16	T	□	
DVP32E200RE	Ⓐ	16	16	R		2 ^E
DVP32E200TE	Ⓐ	16	16	T		2 ^E
DVP40ES200R	Ⓐ	24	16	R		
DVP40ES200T	Ⓐ	24	16	T		

Model Name	Specifications					
DVP40ES200RE	Ⓐ	24	16	R		2 ^E
DVP40ES200TE	Ⓐ	24	16	T		2 ^E
DVP60ES200R	Ⓐ	36	24	R		
DVP60ES200T	Ⓐ	36	24	T		
DVP60ES200RE	Ⓐ	36	24	R		2 ^E
DVP60ES200TE	Ⓐ	36	24	T		2 ^E
DVP80ES200R	Ⓐ	40	40	R		
DVP80ES200T	Ⓐ	40	40	T		
DVP20EX200R	Ⓐ	8	6	R		2AI/2AO
DVP20EX200T	Ⓐ	8	6	T		2AI/2AO
DVP30EX200R	Ⓐ	16	10	R		3AI/1AO
DVP30EX200T	Ⓐ	16	10	T		3AI/1AO

Ⓐ AC power supply ⤵ Inputs ⤵ Transistor output 2^E Ethernet
 Ⓐ DC power supply ⤵ Outputs ⤵ Relay output □ CANopen
 ⤵ Diff. output EtherCAT

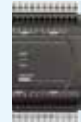
Digital I/O Modules

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



Analog I/O Modules

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



Temperature Measurement Modules

- DVP04PT-E2
- DVP06PT-E2
- DVP04TC-E2



DVP-ES2 Series Extension Cable Modules

- DVPAEXT01-E2



Slim PLC DVP-S Series

Compact, Flexible Extension

DVP-SV3 New

The 3rd DVP generation Standard slim PLC



Model Name	Specifications
DVP28SV311R	
DVP28SV311T	
DVP28SV311S	

- DC power supply
- Inputs
- Outputs
- Transistor output (NPN)
- Relay output
- Transistor output (PNP)
- CANopen
- Ethernet

DVP-SX3 New

The 3rd DVP generation AIO slim PLC



Model Name	Specifications
DVP20SX311R	4AI/2AO
DVP20SX311T	4AI/2AO
DVP20SX311S	4AI/2AO

- DC power supply
- Inputs
- Outputs
- Transistor output (NPN)
- Relay output
- Transistor output (PNP)
- CANopen
- Ethernet

Slim PLC DVP-S Series

Compact, Flexible Extension

DVP-SS2

Standard Slim PLC



Model Name	Specifications
DVP28SS211R	⎓ DC 16 12 R
DVP28SS211T	⎓ DC 16 12 T
DVP28SS211S	⎓ DC 16 12 S
DVP14SS211R	⎓ DC 8 6 R
DVP14SS211T	⎓ DC 8 6 T
DVP12SS211S	⎓ DC 8 4 S

⎓ DC power supply T Transistor output (NPN)
 ↻ Inputs R Relay output
 ↱ Outputs S Transistor output (PNP)

DVP-SX2

Analog I/O Slim PLC



Model Name	Specifications
DVP20SX211R	⎓ DC 8 6 R 4AI/2AO
DVP20SX211T	⎓ DC 8 6 T 4AI/2AO
DVP20SX211S	⎓ DC 8 6 S 4AI/2AO

⎓ DC power supply T Transistor output (NPN)
 ↻ Inputs R Relay output
 ↱ Outputs S Transistor output (PNP)

DVP-SA2

Advanced Slim PLC



Model Name	Specifications
DVP28SA211R*1	⎓ DC 16 12 R
DVP28SA211T*1	⎓ DC 16 12 T
DVP28SA211S*1	⎓ DC 16 12 S
DVP12SA211R	⎓ DC 8 4 R
DVP12SA211T	⎓ DC 8 4 T

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

⎓ DC power supply T Transistor output (NPN)
 ↻ Inputs R Relay output
 ↱ Outputs S Transistor output (PNP)

DVP-SE

Network Type Advanced Slim PLC



Model Name	Specifications
DVP26SE11R*1	⎓ DC 14 12 R
DVP26SE11T*1	⎓ DC 14 12 T
DVP26SE11S*1	⎓ DC 14 12 S
DVP12SE11R	⎓ DC 8 4 R
DVP12SE11T	⎓ DC 8 4 T

⎓ DC power supply T Transistor output (NPN)
 ↻ Inputs R Relay output
 ↱ Outputs S Transistor output (PNP)

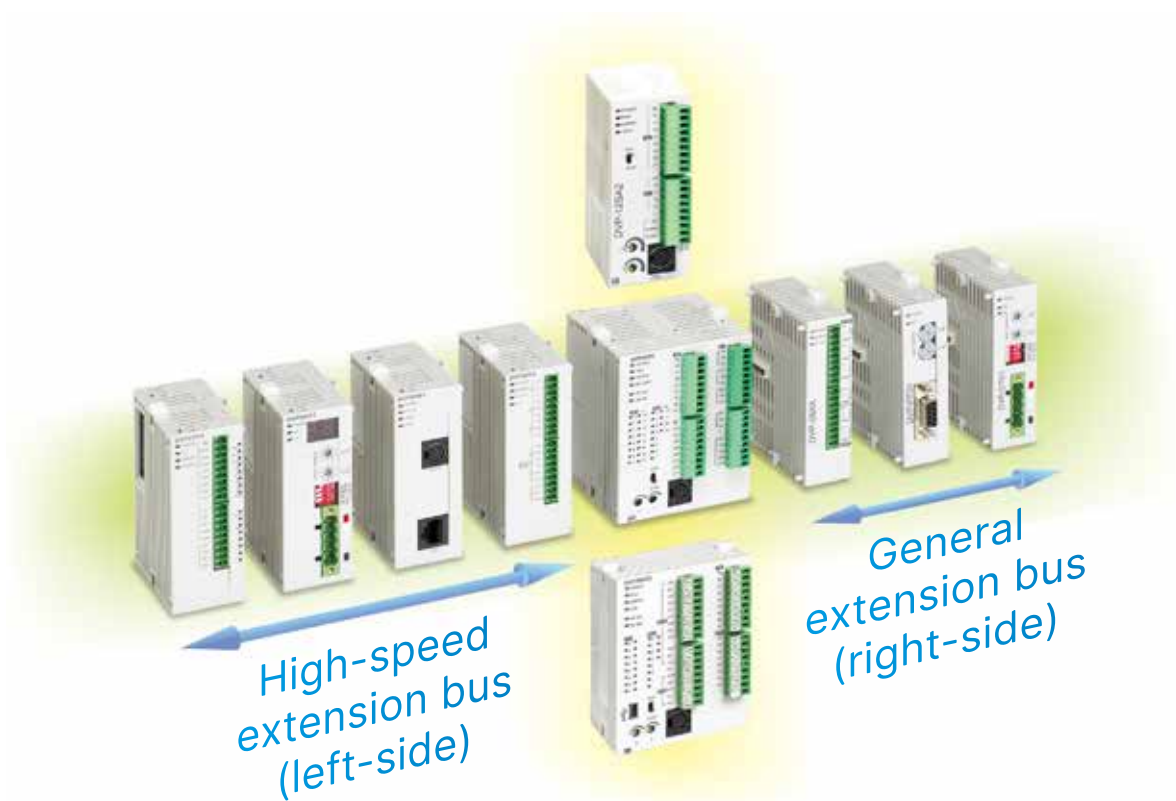
DVP-SV2

High Performance Slim PLC



Model Name	Specifications
DVP28SV11R2	—DC— 16 12 (R)→
DVP28SV11T2	—DC— 16 12 (T)→
DVP28SV11S2	—DC— 16 12 (S)→
DVP24SV11T2	—DC— 10 12 (T)→ 2AI

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



Slim PLC DVP-S Series Extension Modules

High-speed Extension Modules (left-side)

Network Modules

■ DeviceNet Master

DVPDNET-SL



■ CANopen Master

DVPCOPM-SL



■ Ethernet

DVPEN01-SL



■ RS-422/RS-485 Serial Communication Module

DVPSCM12-SL

■ BACnet MS/TP Slave Serial Communication Module

Analog Extension

■ Analog Input

DVP04AD-SL



■ Analog Output

DVP04DA-SL

Load Cell/Tension

■ Load Cell Module

DVP201LC-SL
DVP211LC-SL
DVP202LC-SL



Left-Side Positioning Module

■ 2 Axes Positioning

DVP02PU-SL **New**



General Extension Modules (right-side)*1

I/O Point Extension

■ Input Point Extension

DVP08SM11N
DVP16SM11N



■ Output Point Extension

DVP06SN11R
DVP08SN11R/T
DVP08SN11TS
DVP16SN11T
DVP16SN11TS



■ Input/Output Point Extension

DVP08SP11R/T
DVP08SP11TS
DVP16SP11R/T
DVP16SP11TS



■ Pin Header Input

DVP32SM11N



■ Pin Header Output

DVP32SN11TN



■ Digital Switch

DVP08ST11N



Analog Extension

■ Analog Input

DVP06AD-S
DVP04AD-S2



■ Analog Output

DVP02DA-S
DVP04DA-S2



■ Analog Input/Output

DVP06XA-S2



Temperature Measurement

■ Sensor: Pt100, Pt1000

DVP04PT-S
DVP06PT-S



■ Sensor: J,K,R,S,T thermocouple

DVP04TC-S



■ Sensor: NTC thermistor

DVP08NTC-S



■ Temperature Control:

DVP02TUN-S
DVP02TUR-S
DVP02TUL-S



■ Remote Temperature Control Module:

DVP02TKN-S
DVP02TKR-S
DVP02TKL-S



Power Supply Modules

DVPPS01
DVPPS02
DVPPS05



*1. 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 ~ 240 V _{AC} (-15% ~ 10%), 50/60Hz ±5%	24 V _{DC} (-15% ~ 20%)
Fuse Capacity	2 A / 250 V _{AC}	
Spike Voltage Durability	1500 V _{AC} (Primary-secondary); 1500 V _{AC} (Primary-PE); 500 V _{AC} (Secondary-PE)	
Insulation Impedance	> 5 MΩ (all I/O point-to-ground: 500 V _{DC})	
Noise Immunity	ESD: 8 kV Air Discharge EFT: Power Line, 2 kV Digital I/O: 1 kV Analog & Communication I/O: 1 kV RS: 26 MHz ~ 1 GHz, 10 V/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	
Conformal Coating	Yes	
IP Rating	IP20	

Input Specifications^{*1}

Max. Input Frequency	10 kHz	20 kHz	100 kHz	200 kHz
Input Signal Type	NPN (Sink) / PNP (Source)			
Input Signal Voltage	24 V _{DC} ±10% (5 mA)			
Response time ^{*2}				
DVP-SV3/SX3/SV2	OFF→ON: 20 μs ON→OFF: 50 μs	SS2/SX2 OFF→ON: 3.5 μs ON→OFF: 20 μs	ES2/EX2/SA2/SX2 OFF ON: 2.5 μs ON→OFF: 5 μs	ES3/EX3/SV3/SX3/SV2 OFF→ON: 0.15 μs ON→OFF: 3 μs
DVP-ES3/EX3/ES2/EX2				
DVP-SS2				
DVP-SA2/SX2/SE				

*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.	DVP-SV3/SX3/SV2	2 A/1 Point	0.3 A/point @40 °C	SA2/SX2/ES2/EX2/SE Resistive: 0.5A/point (4 A/COM)	ES3/EX3/SV3/SX3/SV2 Resistive: 0.5A/point (4 A/COM)
	DVP-ES3/EX3/ES2/EX2			Conductive: 12 W (24 V _{DC})	Conductive: 12 W (24 V _{DC})
	DVP-SS2/SA2/SX2/SE	1.5 A/1 Point		Light bulb: 2 W (24 V _{DC})	Light bulb: 2 W (24 V _{DC})
Voltage Spec.		250 V _{AC} / 30 V _{DC}	30 V _{DC}		
Response Time		10 ms	OFF→ON: 20 μs ON→OFF: 30 μs	OFF→ON: 2 μs ON→OFF: 3 μs	OFF→ON: 0.5 μs ON→OFF: 2.5 μs

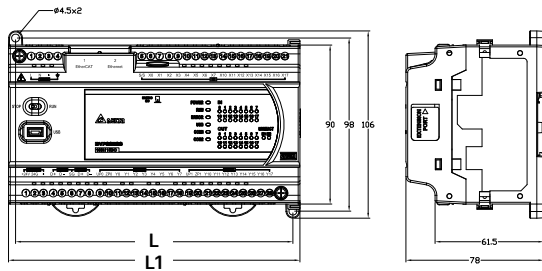
*1. For more detailed specifications, see the "Specification" section in the instruction sheet of each model

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

Dimensions

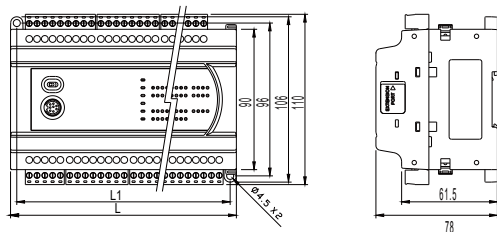
DVP-ES3/ES3-TEC/EX3 Series

Model Name (mm)	L	L1
DVP32ES300T/R	165	157
DVP32ES311T	165	157
DVP48ES300T/R	216	208
DVP64ES300T/R	267	259
DVP80ES300T/R	310	302
DVP32ES300TEC New	165	157
DVP22EX300T/R New	165	157
DVP28EX300MT New	216	208
DVP36EX300T/R New	216	208



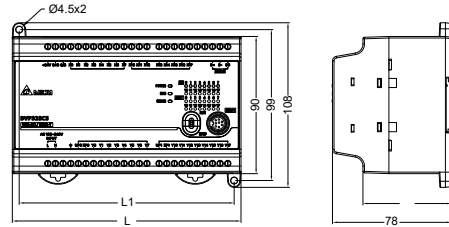
DVP-ES2/EX2 Series

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
DVP80ES200R/T	302	294
DVP20EX200R/T	145	137
DVP30EX200R/T	165	157



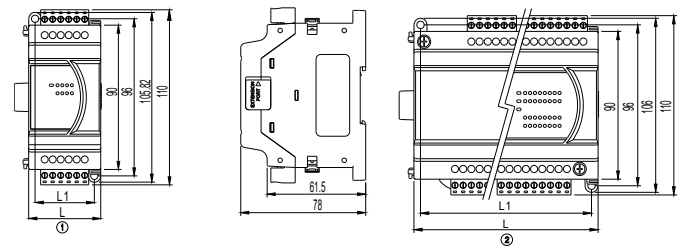
DVP-EC5 Series

Model Name (mm)	L	L1
DVP32EC500T New	150	141
DVP48EC500T New	240	231
DVP60EC500T New	240	231



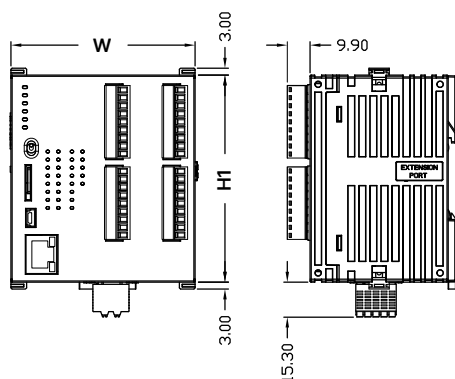
DVP-ES3/ES2/EX2 Series

Model Name (mm)	L	L1	Type
DVP08XM211N	45	37	①
DVP08XP211R/T	45	37	①
DVP08XN211R/T	45	37	①
DVP16XM211N	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
DVP06PT-E2	70	62	②
DVP04TC-E2	70	62	②



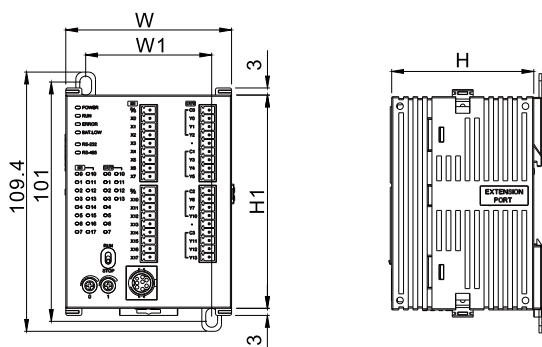
DVP-SV3/SX3 Series New

Model Name (mm)	H	H1	W	W1
DVP28SV311T/R/S	60	90	80	62.6
DVP20SX311T/R/S	60	90	80	62.6

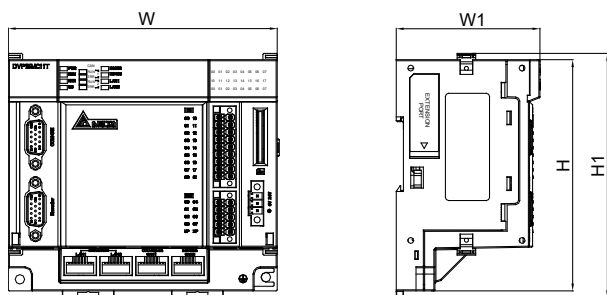


DVP-SV2/SX2/MC Series

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

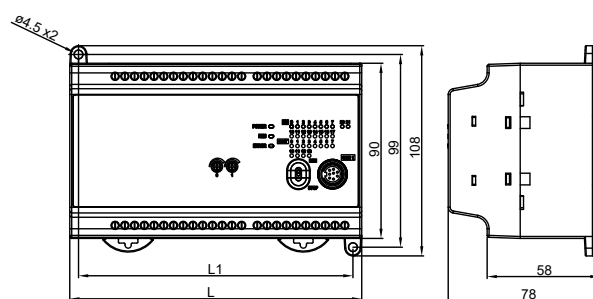


Model Name (mm)	H	H1	W	W1
DVP15MC11T	110	116.2	128	68.4
DVP15MC11T-06	110	116.2	128	68.4
DVP50MC11T/P	110	116.2	128	68.4
DVP50MC11T/P-06	110	116.2	128	68.4
DVP50MC11T-04S/16S	110	116.2	128	68.4



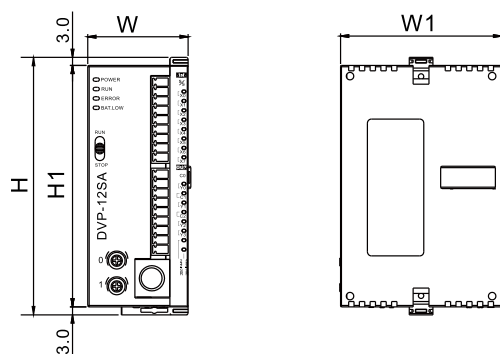
DVP-EC3 Series

Model Name (mm)	L	L1
DVP10EC00R3/T3	95	86
DVP14EC00R3/T3	95	86
DVP16EC00R3/T3	95	86
DVP20EC00R3/T3	150	141
DVP24EC00R3/T3	150	141
DVP30EC00R3/T3	150	141
DVP32EC00R3/T3	150	141
DVP40EC00R3/T3	164	155
DVP48EC00R3/T3	240	231
DVP60EC00R3/T3	240	231



DVP-SE/SS2/SA2 Series

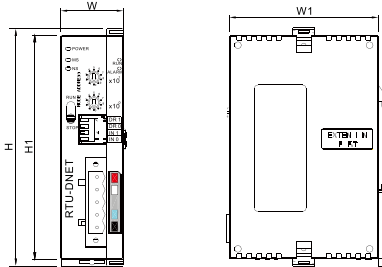
Model Name (mm)	H	H1	W	W1
DVP28SS211R/T/S	96	90	46	60
DVP28SA211R/T/S	96	90	46	60
DVP26SE11R/T/S	96	90	46	60
DVP14SS211R/T	96	90	25.2	60
DVP12SS211S	96	90	25.2	60
DVP12SA211R/T	96	90	37.4	60
DVP12SE11R/T	96	90	37.4	60



Dimensions

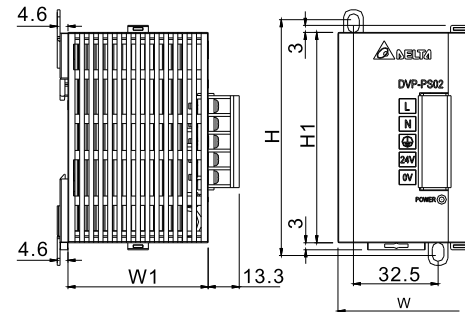
Remote I/O Modules

Model Name (mm)	H	H1	W	W1
RTU-485	96	90	25.2	60
RTU-EN01	96	90	25.2	60
RTU-CN01	96	90	25.2	60
RTU-ECAT	96	90	25.2	60



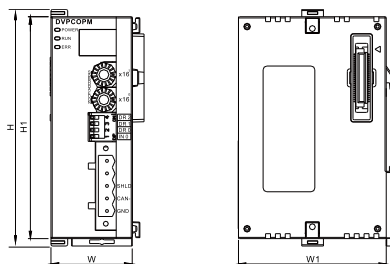
DVP-PS01/02 Power Supply Modules

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



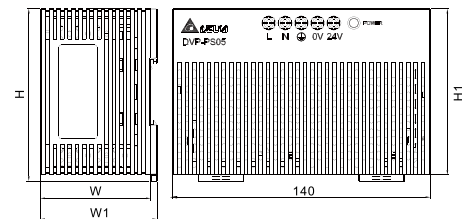
High-Speed Extension Modules (left-side)

Model Name (mm)	H	H1	W	W1
DVP02PU-SL New	96	90	33.1	60
DVPEN01-SL	96	90	33.1	60
DVPCOPM-SL	96	90	33.1	60
DVPDNET-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
DVP201LC-SL	96	90	33.1	60
DVP202LC-SL	96	90	33.1	60
DVP211LC-SL	96	90	33.1	60

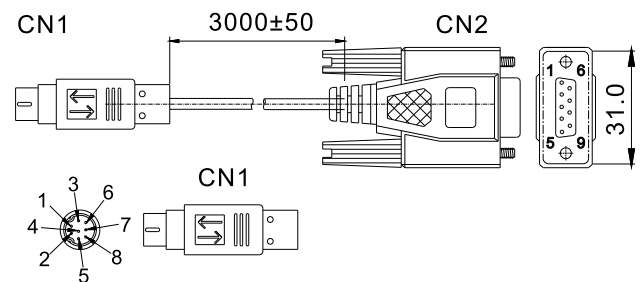


DVP-PS05 Power Supply Modules

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

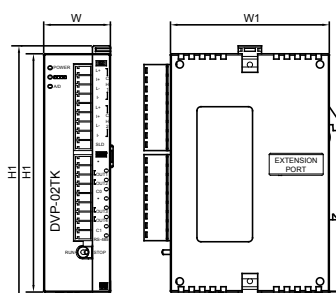


PIN Definition of UC-MS030-01A



Remote Temperature Control Modules

Model Name (mm)	H	H1	W	W1
DVP02TKN-S	96	90	25.2	60
DVP02TKR-S	96	90	25.2	60
DVP02TKL-S	96	90	25.2	60

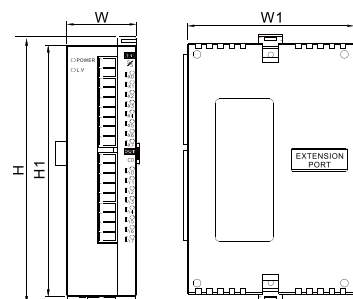


PC/HMI COM Port 9 PIN D-SUB female				PLC COM1 Port 8 PIN MINI DIN			
Tx	3	—	4	Rx	2	1	
Rx	2	—	5	Tx	5	3	
GND	5	—	8	GND	8	6	
	1,2			5V	7		

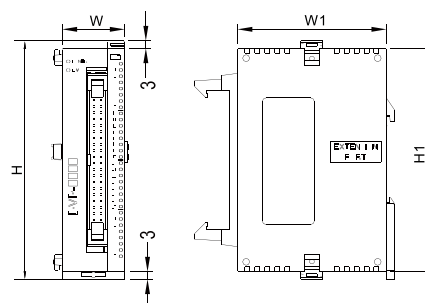
Unit: mm

DVP-S Series I/O and Extension Modules

Model Name (mm)	H	H1	W	W1
DVP08SM11N	96	90	25.2	60
DVP16SM11N	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-S2	96	90	25.2	60
DVP06AD-S	96	90	25.2	60
DVP02DA-S	96	90	25.2	60
DVP04DA-S2	96	90	25.2	60
DVP06XA-S2	96	90	25.2	60
DVP04PT-S	96	90	25.2	60
DVP08NTC-S	96	90	25.2	60
DVP06PT-S	96	90	25.2	60
DVP04TC-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



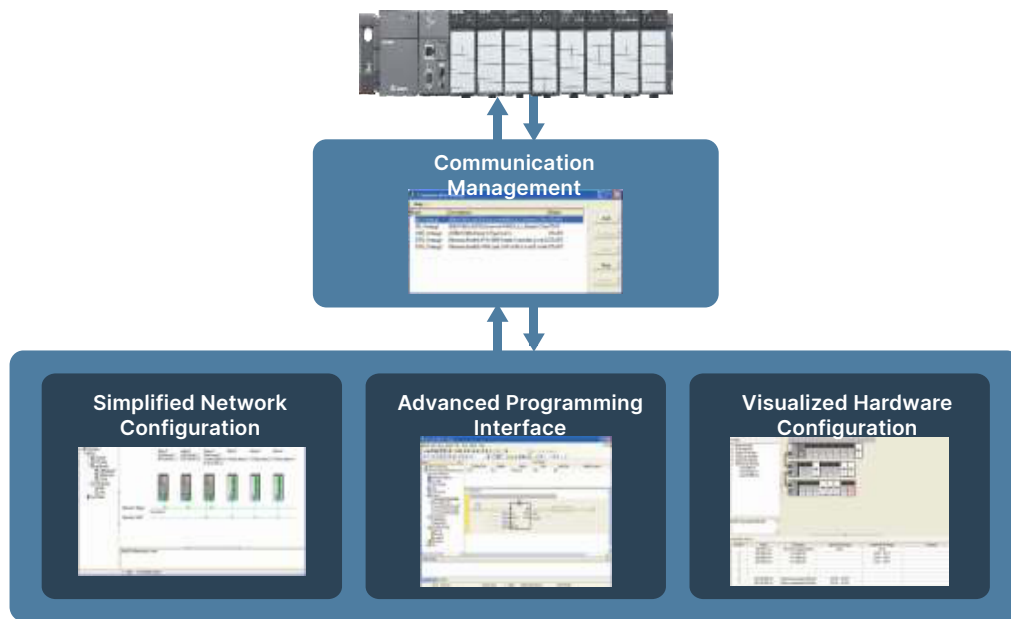
Model Name (mm)	H	H1	W	W1
DVP32SN11TN	96	90	25.2	60
DVP32SM11N	96	90	25.2	60



PLC Editing Software: ISPSoft

Highly Accessible Programming Software with Fully Integrated Interface

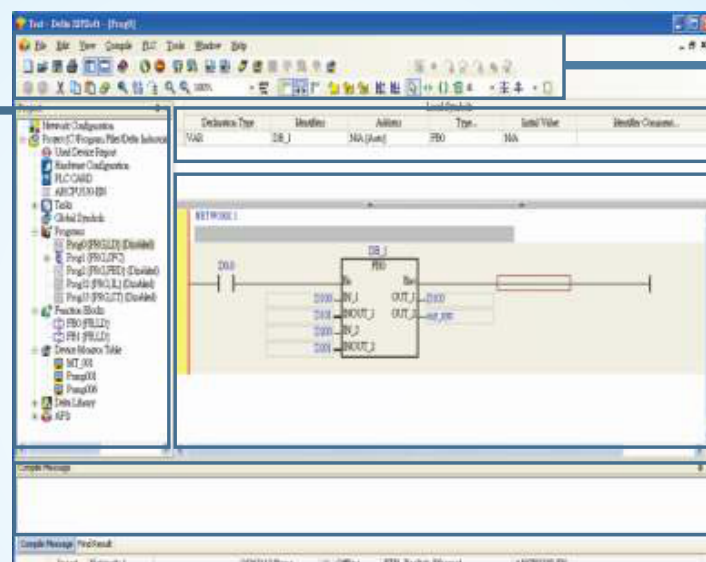
Advanced Programming Interface + Visualized Hardware Configuration + Simplified Network Configuration



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



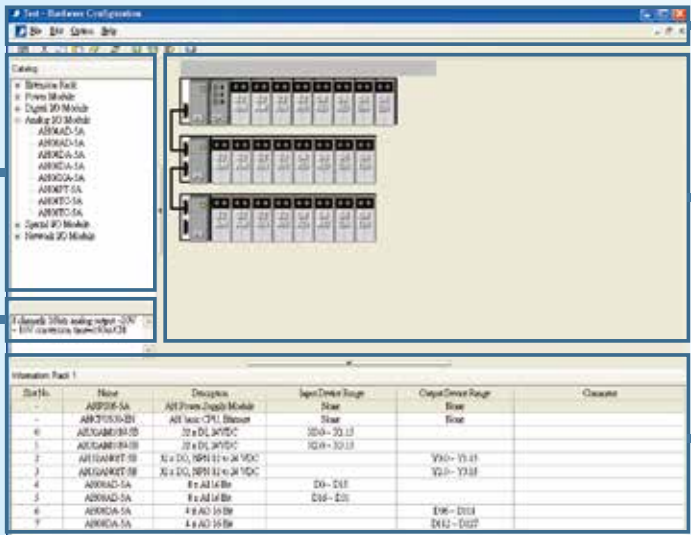
Toolbar

Symbol Table

Program Editing Area

Message Window

Visualized Hardware Configuration



Module Selection

Module Description

Hardware Configuration Area

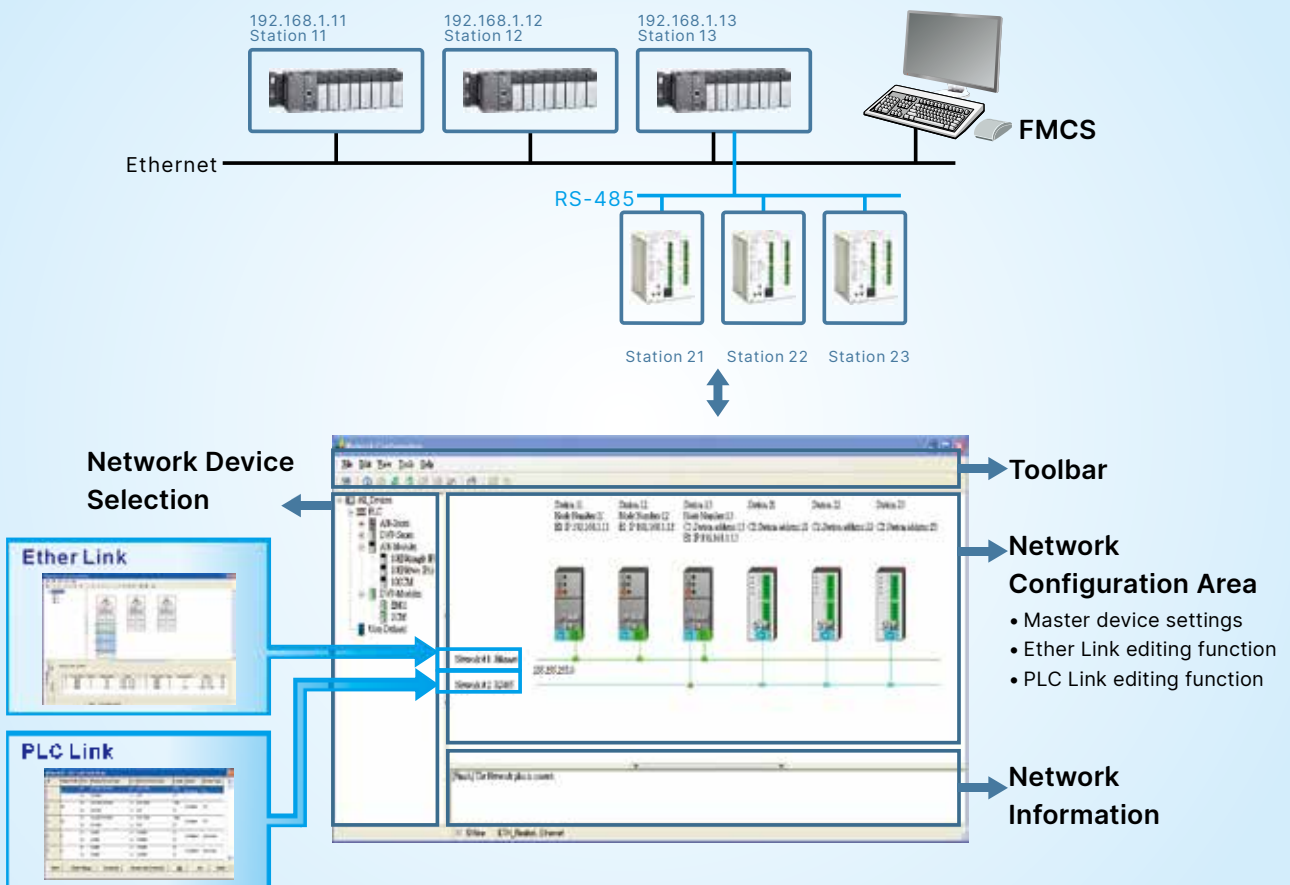
- System hardware configuration can be monitored in On-Line mode
- Hardware configuration can be displayed by Scan function
- Operations of Cut / Copy / Paste / Delete are available for modules and racks
- Parameters of each module can be directly configured

Rack Information

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

Slot No.	Name	Description	Input Device Range	Output Device Range	Comments
0	AP000-5A	AP000-5A	Star	Star	
1	AI16x12-bit	AI 16x12-bit Analog Input Module	1000 - 1011	1000 - 1011	
2	AI16x12-bit	AI 16x12-bit Analog Input Module	1012 - 1023	1012 - 1023	
3	AI16x12-bit	AI 16x12-bit Analog Input Module	1024 - 1035	1024 - 1035	
4	AI16x12-bit	AI 16x12-bit Analog Input Module	1036 - 1047	1036 - 1047	
5	AI16x12-bit	AI 16x12-bit Analog Input Module	1048 - 1059	1048 - 1059	
6	AI16x12-bit	AI 16x12-bit Analog Input Module	1060 - 1071	1060 - 1071	
7	AI16x12-bit	AI 16x12-bit Analog Input Module	1072 - 1083	1072 - 1083	

Simplified Network Configuration



Network Device Selection

Network Configuration Area

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

Network Information

Diagram Details:

- Station 11 (192.168.1.11)
- Station 12 (192.168.1.12)
- Station 13 (192.168.1.13)
- FMCS (Factory Monitoring Control System)
- Ethernet connection
- RS-485 connection
- Station 21, Station 22, Station 23

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

Applications

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

7-Inch Touch Panel HMI with Built-in PLC

TP70P

- ▶ Adopts the core of the DVP-SS2 Series PLC:
program capacity: 4 k steps / D device: 5k words
- ▶ Provides 2 sets of 10 kHz 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

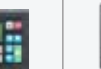
Dimensions	7" (154 × 85 mm)
Resolution	800 × 480
Display Color	65,535 colors
Flash Memory	64 M bytes
Function Key	Not available
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	2 sets of RS-485
Editing Software	TPEditor

4-Line Text Panel HMI with Built-in PLC

TP04P

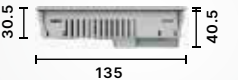
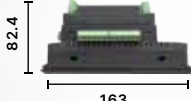
- ▶ Adopts the core of the DVP-SS2 Series PLC:
program capacity: 8 k steps / D device: 5k words
- ▶ Provides 2 sets of 10 kHz high-speed pulse input
- ▶ 4.1" STN-LCD
- ▶ Provides 0~9 numeric keys with user-defined function
- ▶ Built-in USB port for program upload/download
- ▶ Built-in RS-485 port*2
- ▶ 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

		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 22mm	3" (67 x 32mm)	3.8" (83 x 41mm)	4.1" (101.8 x 35.24mm)			7" (154 x 85mm)	
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
	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		+24 V _{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: 8KV, Contact Discharge: 4KV							
Fast Transient Burst		EN61000-4-4, Power Line: 1KV, Communication I/O: 500V							
Dimensions Width (W) × Height (H) × Depth (D)		147 x 97 x 35.5		210 x 122 x 45	163.6 x 108.6 x 37		175.8 × 108.8 × 37	TP04P Series: 175.8 x 108.6 x 59.2 TP04P-20EXL1T: 175.8 x 108.6 x 82.4	TP70P Series: 205.6 x 142.6 x 49 TP70P-211LC1T : 205.6 x 142.6 x 87.7
Panel Cutout		136 x 85		196 x 108	151 x 96		163 × 96	163 × 96	191 × 128
Weight		240 g		430 g	268 g	270 g	292 g	TP04P Series: 500 g TP04P-20EXL1T: 650 g	TP70P Series: 680 g TP70P-211LC1T: 900 g
Safety Approvals (Waterproof Class of Front Panel)		IP66 / NEMA 4x / UL Type 4x (Indoor use only)							
Editing Software		TPEditor							

Product Outline and Dimensions

Unit: mm

TP02G-AS1	TP04G-AS2	TP04G-AL-C/TP04G-AL2
 147  30.5 3.5 40.5 135  85	 147  30.5 3.5 40.5 135  85	 163.6 108.6  37 8 150  95
TP04G-BL-C	TP04P-Series (Exclude TP04P-20EXL1T)	TP08G-BT2
 175.8 108.6  37 8 162.2  95	 175.8 108.6  59.2 8 162.2  95	 210 122  7.5 37.5 196.26  108.26
TP70P-Series (Exclude TP70P-211LC1T)	TP04P-20EXL1T	TP70P-211LC1T
 205.6 142.6  7.5 49 189.6  126.6	 175.8 108.6  82.4 163  96	 205.6 142.6  87.7 191  121

DVP Series Model Name Instructions

• PLC Series 1 2 3 4 5 Total I/O Model ES2/ES3: DVP-ES2/ES3 series PLC EX2/EX3: DVP-EX2/EX3 series PLC SS2: DVP-SS2 series PLC SV2/SV3: DVP-SV2/SV3 series PLC SA2: DVP-SA2 series PLC SX2/SX3: DVP-SX2/SX3 series PLC SE: DVP-SE series PLC MC: DVP-MC series PLC EC: DVP-EC series PLC Power supply 00: AC power input 11: DC power input Output type R: Relay T: Transistor (NPN) M: Mixed with differential signal S: Transistor (PNP) RC: Relay + CANopen TC: Transistor + CANopen RE: Relay + Ethernet TE: Transistor + Ethernet Version	• DI/DO Module Series 1 2 3 4 5 Total I/O Model X: DVP-ES2/EX2/ES3 series PLC S: DVP-SV3/SX3/SS2/SA2/SX2/SV2/SE/MC series PLC I/O type M: Input point N: Output point P: Input + output Power supply 00: AC power input 11: DC power input Output type R: Relay T: Transistor (NPN) TS: Transistor (PNP) N: None output	• AI/AO Module Series 1 2 3 Total I/O Module function AD: Analog/digital conversion DA: Digital/analog conversion PT: PT type temperature module TC: Thermocouple type temperature module NTC: Thermistor type temperature module XA: AD + DA module LC: Load cell module Compatible model S2: DVP-SV3/SX3/SS2/SA2/SX2/SV2/SE/MC series PLC SL: left-side extension for DVP-S Series PLC E2: DVP-ES2/EX2/ES3/EX3 series PLC
• PI/PO Module Series 1 2 3 Total I/O Module function HC: High-speed counter PU: Single-axis positioning module Compatible model S: DVP-SV3/SX3/SS2/SA2/SX2/SV2/SE/MC series PLC SL: left-side extension for DVP-S Series PLC	• Function Card Series 1 2 3 Function Card Function 232: RS-232 card 422: RS-422 card 485: RS-485 card 2AD: 2ch analog input 2DA: 2ch analog output Particular definition S: Slave mode (applicable to COM3 coding only)	• Network Module Series 1 2 Module function EN01: Modbus TCP DNET: DeviceNet master COPM: CANopen master Compatible model S: DVP-SV3/SX3/SS2/SA2/SX2/SV2/SE/MC series PLC SL: left-side extension for DVP-S Series PLC
• Remote I/O Series 1 Type 485: RS-485 EN01: Modbus TCP CN01: CANopen ECAT: EtherCAT	• Accessory: Cable Series 1 2 3 4 Accessory Accessory definition CAB: Cable Type 1, 2, 3, 4, Cable length 15: 1.5 m 30: 3.0 m	• Accessory: Other Series 1 2 3 Accessory Accessory definition Bt: Battery Type: 01, 02,

*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.

What do you need?

Select specifications

Check

Locate PLC

Item	Specifications	Check	Model										
			ES3	EX3	SV3	SX3	ES2	EX2	SS2	SA2	SX2	SV2	SE
Power Supply	AC	☐	○	○			⊙	⊙					
	DC	☐	○		○	○			○	○	○	○	○
I/O Points	< 256	☐	△	△			△	△					
	< 512	☐			△	△			△	△	△	△	△
Program Capacity	< 8 k	☐							○				
	<16 k	☐					○	○		○	○		○
	< 32 k	☐										○	
	< 64 k	☐	○	○	○	○							
Output Type	Transistor (NPN)	☐	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	Transistor (PNP)	☐			⊙	⊙			⊙	△	⊙	⊙	△
	Relay	☐	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	Differential signal	☐		○		○							
Communication	3 COM ports (RS-232 / 485)	☐	○	○	○	○	○	○		○	△	△	△
	Ethernet	☐	○	○	○	○	⊙			△	△	△	○
	USB	☐	○	○	○	○					○		○
	DeviceNet	☐			△	△				△*1	△*1	△*1	△*1
	CANopen	☐	○	○	○	○	⊙			△*1	△*1	△*1	△*1
	EtherCAT	☐	ES3-TEC										
Positioning	2-axis output	☐					○	○	○	○	○		○
	4-axis output	☐										○	
	> 4 axes	☐	○	○	○	○			△	△	△	△	△
	2-axis interpolation	☐	○	○	○	○	○	○		○	○	○	○
	100 kHz high speed	☐					○	○		○	○		○
	200 kHz high speed	☐	○	○	○	○			△	△	△	○	△
High-speed Counting	≤ 2 channels	☐					○	○	○	○	○		○
	≥ 3 channels	☐	○	○	○	○			△	△	△	○	△
	100 kHz high speed	☐					○	○		○	○		○
	200 kHz high speed	☐	○	○	○	○			△	△	△	○	△
Analog Function	< 4 channels (AD)	☐	△	△	△	○	△	○	△	△	○	△	△
	< 2 channels (DA)	☐	△	○	△	○	△	○*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

(Note: DVP26SE / DVP28SA2 only supports right-side modules)

*2: DVP-EX2 / SX2 Series have 4 channels of analog input and 2 channels of analog output

Ordering Information

DVP-EC3 Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-EC3 Series Basic PLC	100 ~ 240 V _{AC}	Relay	6	4	DVP10EC00R3	 
	100 ~ 240 V _{AC}	Transistor	6	4	DVP10EC00T3	
	100 ~ 240 V _{AC}	Relay	8	6	DVP14EC00R3	
	100 ~ 240 V _{AC}	Transistor	8	6	DVP14EC00T3	
	100 ~ 240 V _{AC}	Relay	8	8	DVP16EC00R3	
	100 ~ 240 V _{AC}	Transistor	8	8	DVP16EC00T3	
	100 ~ 240 V _{AC}	Relay	12	8	DVP20EC00R3	
	100 ~ 240 V _{AC}	Transistor	12	8	DVP20EC00T3	
	100 ~ 240 V _{AC}	Relay	12	12	DVP24EC00R3	
	100 ~ 240 V _{AC}	Transistor	12	12	DVP24EC00T3	
	100 ~ 240 V _{AC}	Relay	18	12	DVP30EC00R3	
	100 ~ 240 V _{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 ~ 240 V _{AC}	Relay	16	16	DVP32EC00R3	 
	100 ~ 240 V _{AC}	Transistor	16	16	DVP32EC00T3	
	100 ~ 240 V _{AC}	Relay	24	16	DVP40EC00R3	
	100 ~ 240 V _{AC}	Transistor	24	16	DVP40EC00T3	
	100 ~ 240 V _{AC}	Relay	28	20	DVP48EC00R3	
	100 ~ 240 V _{AC}	Transistor	28	20	DVP48EC00T3	
	100 ~ 240 V _{AC}	Relay	36	24	DVP60EC00R3	
	100 ~ 240 V _{AC}	Transistor	36	24	DVP60EC00T3	
Fastest execution time of basic instructions		3.8 μs	Execution time of MOV instruction			5.04 μs

DVP-EC5 Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-EC5 Series Basic PLC	100 ~ 240 V _{AC}	Transistor	16	16	DVP32EC500T	
	100 ~ 240 V _{AC}	Transistor	28	20	DVP48EC500T	
	100 ~ 240 V _{AC}	Transistor	36	24	DVP60EC500T	

DVP-ES3/ES3-TEC/EX3/ES2/EX2 Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-ES3 Series Standard PLC	24 V _{DC}	Transistor	16	16	DVP32ES311T	 
	100 ~ 240 V _{AC}	Transistor	16	16	DVP32ES300T	
	100 ~ 240 V _{AC}	Relay	16	16	DVP32ES300R	
	100 ~ 240 V _{AC}	Transistor	24	24	DVP48ES300T	
	100 ~ 240 V _{AC}	Relay	24	24	DVP48ES300R	
	100 ~ 240 V _{AC}	Transistor	32	32	DVP64ES300T	
	100 ~ 240 V _{AC}	Relay	32	32	DVP64ES300R	
	100 ~ 240 V _{AC}	Transistor	40	40	DVP80ES300T	
	100 ~ 240 V _{AC}	Relay	40	40	DVP80ES300R	
New DVP-ES3 Series Standard PLC	100 ~ 240 V _{AC}	Transistor	16	16	DVP32ES300TEC	
DVP-ES2 Series Standard PLC	100 ~ 240 V _{AC}	Relay	8	8	DVP16ES200R	
	100 ~ 240 V _{AC}	Transistor	8	8	DVP16ES200T	
	100 ~ 240 V _{AC}	Relay	16	8	DVP24ES200R	
	100 ~ 240 V _{AC}	Transistor	16	8	DVP24ES200T	
	100 ~ 240 V _{AC}	Relay	16	16	DVP32ES200R	
	100 ~ 240 V _{AC}	Transistor	16	16	DVP32ES200T	
	24 V _{DC}	Transistor	16	16	DVP32ES211T	
	100 ~ 240 V _{AC}	Relay	24	16	DVP40ES200R DVP40ES200RM ^{*1}	
	100 ~ 240 V _{AC}	Transistor	24	16	DVP40ES200T	
	100 ~ 240 V _{AC}	Relay	36	24	DVP60ES200R	
	100 ~ 240 V _{AC}	Transistor	36	24	DVP60ES200T	
	100 ~ 240 V _{AC}	Relay	40	40	DVP80ES200R	
	100 ~ 240 V _{AC}	Transistor	40	40	DVP80ES200T	
DVP-ES2 Series Standard PLC with Built-in CANopen	100 ~ 240 V _{AC}	Relay	16	16	DVP32ES200RC	
	100 ~ 240 V _{AC}	Transistor	16	16	DVP32ES200TC	
DVP-ES2 Series Standard PLC with Ethernet Communication	100 ~ 240 V _{AC}	Relay	12	8	DVP20ES200RE	
	100 ~ 240 V _{AC}	Transistor	12	8	DVP20ES200TE	
	100 ~ 240 V _{AC}	Relay	16	16	DVP32ES200RE	
	100 ~ 240 V _{AC}	Transistor	16	16	DVP32ES200TE	
	100 ~ 240 V _{AC}	Relay	24	16	DVP40ES200RE	
	100 ~ 240 V _{AC}	Transistor	24	16	DVP40ES200TE	
	100 ~ 240 V _{AC}	Relay	36	24	DVP60ES200RE	
	100 ~ 240 V _{AC}	Transistor	36	24	DVP60ES200TE	
New DVP-EX3 Series AIO PLC	100 ~ 240 V _{AC}	Transistor	12	8	DVP22EX300T DVP22EX300R	
		Relay	2AI	0		
		100 ~ 240 V _{AC}	Transistor	4 x diff.DI + 8DI	4 x diff.DO + 8DO	DVP28EX300MT
	Analog		2AI	2AO		
	100 ~ 240 V _{AC}		Transistor	16	16	DVP36EX300T DVP36EX300R
		Relay	2AI	2AO		
DVP-EX2 Series Analog PLC	100 ~ 240 V _{AC}	Relay	8	6	DVP20EX200R	
		Analog	4	2		
	100 ~ 240 V _{AC}	Transistor	8	6	DVP20EX200T	
		Analog	4	2		
DVP-EX2 Series Temperature / Analog PLC	100 ~ 240 V _{AC}	Relay	16	10	DVP30EX200R	
		Analog	3	1		
	100 ~ 240 V _{AC}	Transistor	16	10	DVP30EX200T	
		Analog	3	1		
Fastest execution time of basic instructions		ES3: 0.025μs ES2/EX2: 0.35μs	Execution time of MOV instruction		ES3: 0.15μs ES2/EX2: 3.4μs	

*1: Built-in SD card slot

Ordering Information

DVP-ES3/ES3-TEC/EX3/ES2/EX2 Series Digital I/O Module (AC power supply)

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

DVP-ES3/ES3-TEC/EX3/ES2/EX2 Series Digital I/O Module (AC power supply)

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 (10 V, 5 V) / current (20 mA, 0 ~ 20 mA, 4 ~ 20 mA) input *1 - Resolution: 14-bit (-32,000 ~ +32,000)			DVP04AD-E2	 
	4 points of analog voltage (-10 V ~ +10 V) / current (0 ~ 20 mA, 4 ~ 20 mA) output *1 - Resolution: 14-bit (-32,000 ~ +32,000) / (0 ~ +32,000)			DVP04DA-E2	
	2 points of analog voltage (-10 V ~ +10 V) / current (0 ~ 20 mA, 4 ~ 20 mA) output *1 - Resolution: 14-bit (-32,000 ~ +32,000) / (0 ~ +32,000)			DVP02DA-E2	
	4 points of analog voltage (10 V, 5 V) / current (20 mA, 0 ~ 20 mA, 4 ~ 20 mA) input *1 - Input resolution: 14-bit (-32,000 ~ +32,000) 2 points of analog voltage (-10 V ~ +10 V) / current (0 ~ 20 mA, 4 ~ 20 mA) output - Output resolution: 14-bit (-32,000 ~ +32,000) / (0 ~ +32,000)			DVP06XA-E2	
Temperature Measurement Module	4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input / 0 ~ 300Ω resistance input *1 - Resolution: 16-bit - With PID temperature control			DVP04PT-E2	
	6 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input / 0 ~ 300Ω resistance input *1 - Resolution: 16-bit - With PID temperature control			DVP06PT-E2	
	4 points of thermocouple (J, K, R, S, T, E, N Type) sensor input / -80mV ~ +80mV voltage input *1 - Resolution: 20-bit - With PID temperature control			DVP04TC-E2	
Extension module	Extends distance between the I/O modules of the DVP-ES2 Series within a given distance			DVPAEXT01-E2	

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

DVP-S Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
New DVP-SV3 Series Standard PLC	24 V _{DC}	Transistor	16	12	DVP28SV311T	
	24 V _{DC}	Relay	16	12	DVP28SV311R	
	24 V _{DC}	Transistor (PNP)	16	12	DVP28SV311S	
DVP-SV2 Series Functional Slim PLC	24 V _{DC}	Relay	16	12	DVP28SV11R2	
	24 V _{DC}	Transistor	16	12	DVP28SV11T2	
	24 V _{DC}	Transistor (PNP)	16	12	DVP28SV11S2	
	24 V _{DC}	Transistor	10 (2AI)	12	DVP24SV11T2	
Execution time of basic instructions			0.24 μs			
DVP-SS2 Series Standard Slim PLC	24 V _{DC}	Relay	16	12	DVP28SS211R	
	24 V _{DC}	Transistor	16	12	DVP28SS211T	
	24 V _{DC}	Transistor (PNP)	16	12	DVP28SS211S	
	24 V _{DC}	Relay	8	6	DVP14SS211R	
	24 V _{DC}	Transistor	8	6	DVP14SS211T	
	24 V _{DC}	Transistor (PNP)	8	4	DVP12SS211S	
DVP-SA2 Series Advanced Slim PLC	24 V _{DC}	Relay	16	12	DVP28SA211R	
	24 V _{DC}	Transistor	16	12	DVP28SA211T	
	24 V _{DC}	Transistor (PNP)	16	12	DVP28SA211S	
	24 V _{DC}	Relay	8	4	DVP12SA211R	
	24 V _{DC}	Transistor	8	4	DVP12SA211T	
New DVP-SX3 Series AIO PLC	24 V _{DC}	Transistor Relay Transistor (PNP)	8	6	DVP20SX311T DVP20SX311R DVP20SX311S	
			4AI	2AO		
DVP-SX2 Series Analog Slim PLC	24 V _{DC}	Relay	8 (4AI)	6 (2AO)	DVP20SX211R	
	24 V _{DC}	Transistor	8 (4AI)	6 (2AO)	DVP20SX211T	
	24 V _{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	24 V _{DC}	Relay	14	12	DVP26SE11R	
	24 V _{DC}	Transistor	14	12	DVP26SE11T	
	24 V _{DC}	Transistor (PNP)	14	12	DVP26SE11S	
	24 V _{DC}	Relay	8	4	DVP12SE11R	
	24 V _{DC}	Transistor	8	4	DVP12SE11T	
Fastest execution time of basic instructions		0.64 μs	Execution time of MOV instruction		2 μs	

Ordering Information

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 (-10 V ~ +10 V) / current (-20 mA ~ +20 mA) - Input resolution: 14-bit	- Built-in RS-485 interface - Differential input		DVP04 AD-S2	
	4 points of analog output voltage (0 V ~ +10 V) / 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 (-10 V ~ +10 V) / current (-20 mA ~ +20 mA) 2 points of analog output voltage (0 V ~ +10 V) / current (0 mA ~ +20 mA)	- Input/output resolution: 12-bit - Built-in RS-485 interface - Differential input		DVP06XA-S2	

DVP-S Series Analog Module

Product Name	Description		Model Name	Certificates
Analog I/O Module	2 points of analog output voltage (0 V ~ +10 V) / current (0 mA ~ +20 mA) - Output resolution: 12-bit	Built-in RS-485 interface	DVP02DA-S	
	6 points of analog input voltage (-10 V ~ +10 V) / current (-20 mA ~ +20 mA) - Input resolution: 14-bit	Built-in RS-485 interface	DVP06 AD-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: 1~5 V, 0~5 V, -5~5 V, 0~10 V, -10~10 V, 4~20 mA, 0~20 mA, -20~20 mA - Resolution: 16-bit - Single channel On/Off setup enhances entire conversion efficiency - Conversion time: 250 μs / point - Off-line alarm (1~5 V, 4~20 mA)		DVP04 AD-SL	
	4 groups of analog output *1 - Signal range: 0~10 V, -10~10 V, 4~20 mA, 0~20 mA - Resolution: 16-bit - Offers single channel On/Off setup - Conversion time: 250 μs / point		DVP04DA-SL	
High-Speed Load Cell Module (Left-side)	1 set of load cell module *1 - Resolution: 24-bit for hardware(ADC), 32-bit for data output	- Connectable to 4-wire / 6-wire load cell sensor - Measurable range: 0~80 mV/V	DVP201LC-SL	
	1 set of load cell module *1 - Resolution: 24-bit for hardware(ADC), 32-bit for data output - Connectable to 4-wire / 6-wire load cell sensor	- Measurable range: 0~80 mV/V - Built-in I/O control: 2DI / 4DO / 1AO	DVP211LC-SL	
	2 sets of load cell module *1 - Resolution: 24-bit for hardware(ADC), 32-bit for data output	- Connectable to 4-wire / 6-wire load cell sensor - Measurable range: 0~80 mV/V	DVP202LC-SL	
Temperature Measurement Module	6 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input - Resolution: 0.1°C / 0.18°F		DVP06PT-S	
	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 / 0.18°F - Built-in RS-485 interface		DVP04PT-S	
	4 points of thermocouple (J, K, R, S, T type) sensor input *1 - Resolution: 0.1°C / 0.18°F - Built-in RS-485 interface		DVP04TC-S	
	8 points of thermistor (NTC) sensor input - Resolution: 0.1°C / 0.18°F - Built-in RS-485 interface		DVP08NTC-S	
	2 points of universal analog input: 0~10 V, 0~20 mA, 4~20 mA; 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 / 0.18°F 4 points of NPN transistor output: 24V_{DC} / 300mA - Output point: built-in PID program control / manual control		DVP02TUN-S	
	2 points of universal analog input: 0~10 V, 0~20 mA, 4~20 mA; 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 / 0.18°F 4 points of relay output: 24V_{DC} / 3A - Output point: built-in PID program control / manual control		DVP02TUR-S	
	2 points of universal analog input: 0~10 V, 0~20 mA, 4~20 mA; 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 / 0.18°F 2 points of analog output: 0~10 V, 0~20 mA, 4~20 mA - Output point: built-in PID program control / manual control		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
Left-Side Positioning Module	2-axis positioning left-side extension module. 5 ~ 24 V_{DC}, 1 x (A/B/Z phase) differential input (Max. 200 kHz frequency) 24 V_{DC}, 5mA, 5 points inputs (Max. 1kHz frequency) 5 V_{DC}, 2 axes (4 points) differential output (Max. 200 kHz frequency)	DVP02PU-SL New	
Left-Side High-Speed Communication Module	Ethernet communication module, 10/100Mbps	DVPEN01-SL	
	DeviceNet master communication module, 500 Kbps	DVPDNET-SL	
	CANopen master communication module, 1Mbps	DVPCOPM-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	
	CANopen remote I/O module, connectable to DVP-S series I/O modules	RTU-CN01	
	EtherCAT remote I/O module, connectable to DVP-S series I/O modules	RTU-ECAT	
Remote Temperature Control Module	2 points of universal analog input: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA; - 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/0.18 °F 4 points of NPN transistor output: 24V_{DC}/300mA - Output point: built-in PID program control/manual control	DVP02TKN-S	
	2 points of universal analog input: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA; - 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/0.18 °F 4 points of relay output: 24V_{AC}/3A - Output point: built-in PID program control/manual control	DVP02TKR-S	
	2 points of universal analog input: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA; - 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/0.18 °F 2 points of analog output: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA - Output point: built-in PID program control/manual control	DVP02TKL-S	

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

Communication Converter

Product Name	Description	Model Name	Certificates
Converter	USB to RS-485 converter	IFD6500	
	USB to CAN converter	IFD6503	
	USB to RS-485 converter	IFD6530	
	EtherNet/IP, Modbus TCP to RS-232, RS-485 converter	IFD9506	
	RS-232 to RS-422/485 isolated converter	IFD8500-A	
	RS-485 to RS-422 isolated repeater	IFD8510-A	

DVP-MC Series

Product Name	Power Supply	Communication Protocol	Axes Controlled	Inputs	Outputs	Model Name	Certificates
Multi-axis Motion Controller	24 V _{DC}	EtherCAT	24	16	8 (NPN)	DVP15MC11T	
			6	16	8 (NPN)	DVP15MC11T-06	
			32	16	8 (NPN)	DVP50MC11T	
			32	16	8 (PNP)	DVP50MC11P	
			6	16	8 (PNP)	DVP50MC11P-06	
			6	16	8 (NPN)	DVP50MC11T-06	
			4 (Point-to-Point)	16	8 (NPN)	DVP50MC11T-4S	
			16 (Point-to-Point)	16	8 (NPN)	DVP50MC11T-16S	

TP Series

Product Name	Description									Model	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	
Product Name	Description	DI	DO	AI* ²	AO* ²	PT	AX* ¹	LC	Output Type	Model	Certificates
TP04P	Resolution: 192 x 64 Serial COM ports: USB & RS-485*2	8	8						Relay	TP04P-16TP1R	
		16	16						Relay	TP04P-32TP1R	
		8	8	4 (V/I)	2 (V/I)				Relay	TP04P-22XA1R	
		8	8	2 (I)	1 (I)	2			Relay	TP04P-21EX1R	
		8	8						Transistor	TP04P-16TP1T	
		16	16						Transistor	TP04P-32TP1T	
		8	8	4 (V/I)	2 (V/I)				Transistor	TP04P-22XA1T	
		8	8	2 (I)	1 (I)	2			Transistor	TP04P-21EX1T	
TP70P	Resolution: 800 x 400 Serial COM ports: USB & RS-485*2	9	16	4 (V/I)	2 (V/I) 4 (I)		2	1	Transistor	TP04P-20EXL1T* ³	
		8	8						Relay	TP70P-16TP1R	
		16	16						Relay	TP70P-32TP1R	
		8	8	4 (V/I)	2 (V/I)				Relay	TP70P-22XA1R	
		8	8	2 (I)	1 (I)	2			Relay	TP70P-21EX1R	
		8	8						Transistor	TP70P-16TP1T	
		16	16						Transistor	TP70P-32TP1T	
		8	8	4 (V/I)	2 (V/I)				Transistor	TP70P-22XA1T	
TP08	Resolution: 240 x 128 / Serial COM ports: RS-232, RS-422 & RS-485 / 0~9 numeric numeric keypad	8	8						Relay	TP70P-21EX1T	
		17	24		4 (I)		2	1	Transistor	TP70P-21LC1T* ³	

*1: Universal analog input (mA, V, RTD)

*2: V (Voltage), I (Current)

*3: USB & RS-485 are design with isolation

Software

Product Name	Description	OS (Windows-based Software)
ISPSOft	PLC editing software for AH, AS and DVP 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)
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)

Ordering Information

Starter Kit

Product Name	Model Name	Contents
Delta PLC Starter Kit	UT-14SS2-A	DVP14SS211R (PLC), DOP-107BV (HMI) and accessory
	UT-12SE-A1	DVP12SE11R (PLC), DOP-107EV (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	
				120W	5A	DVPPS05	

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

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	1.5 m	PC (USB↔mini USB) PLC	DVP-SE / DVP-SX2 / AH500
	UC-PRG015-02A	Communication cable for TP (USB B type) to PC	1.5 m	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	2 m	PC (DB9 female↔8-pin mini-DIN male) PLC	DVP / TP RS-232
	UC-PRG030-01A	Communication cable for PLC (mini USB) to PC	3 m	PC (USB↔mini USB) PLC	DVP-SE / SX2 AH500
	UC-PRG030-02A	Communication cable for TP (USB B type) to PC	3 m	PC (USB↔USB B type) TP	TP70P / TP04P / DOP
	UC-PRG030-10A	Communication cable for PLC / HMI / TP (DB9 female) to PC	3 m	PC (DB9 female↔DB9 female) PLC / HMI / TP	PLC / HMI / TP (DB9 female)
	UC-PRG030-20A	Communication cable for PLC / HMI (RJ45) to PC	3 m	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	1 m	PC (DB9 female ↔ 8-pin mini-DIN right angle male) PLC	DVP PLC RS-232
	UC-MS020-01A	Communication cable for PLC (8-pin mini-DIN male) to PC	2 m	PC (DB9 female↔8-pin mini-DIN male) PLC	
	UC-MS020-06A	Communication cable for PLC (8-pin mini-DIN male) to HMI	2 m	HMI (DB9male↔8-pin mini-DIN male) PLC	
	UC-MS030-01A	Communication cable for PLC (8-pin mini-DIN male) to PC	3 m	PC (DB9 female↔8-pin mini-DIN male) PLC	
	UC-MS030-06A	Communication cable for PLC (8-pin mini-DIN male) to HMI	3 m	HMI (DB9male↔8-pin mini-DIN male) PLC	

Accessories

Type	Model Name	Description	Specification		Applicable Modules	
			Length	Connector / Terminal Block		
I/O External Terminal Module	UC-ET010-24A	I/O extension cable for connecting external terminal modules	1m	PLC (MIL IDC40↔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 (MIL IDC40↔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 (MIL IDC40↔IDC20 x 2) external terminal modules	DVP32SN11TN↔UB-10-OR16A	
	UC-ET010-24D	I/O extension cable for connecting external terminal modules	1m	PLC (MIL IDC40↔IDC20 x 2) external terminal modules (shielded wire)	DVP32SN11TN↔UB-10-OR16A	
	UC-ET020-24B	I/O extension cable for connecting external terminal modules	2m	PLC (MIL IDC40↔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 (MIL IDC40↔IDC20 x 2) external terminal modules (shielded wire)	DVP32SN11TN↔UB-10-OR16A	
	UC-ET030-24B	I/O extension cable for connecting external terminal modules	3m	PLC (MIL IDC40 ↔ 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 (MIL IDC40 to IDC20 x 2) external terminal modules (shielded wire)	DVP32SN11TN↔UB-10-OR16A	
Motion Control Cable / Industrial Communication Cable	UC-CMC003-01A	CANopen communication cable	0.3 m	RJ45	DVP CPM-SL DVP15MC11T DVP15MC11T-06 TAP-CN03	
	UC-CMC005-01A		0.5 m			
	UC-CMC010-01A		1 m			
	UC-CMC015-01A		1.5 m			
	UC-CMC020-01A		2 m			
	UC-CMC030-01A		3 m			
	UC-CMC050-01A		5 m			
	UC-CMC100-01A		10 m			
	UC-CMC200-01A		20 m			
	UC-EMC003-02C	EtherCAT communication cable (High anti-interference)	0.3 m	RJ45	DVP50MC11T DVP50MC11T-06	
	UC-EMC005-02C		0.5 m			
	UC-EMC010-02C		1 m			
	UC-EMC020-02C		2 m			
	UC-EMC050-02C		5 m			
	UC-EMC100-02C		10 m			
	UC-EMC200-02C		20 m			
	UC-EMC003-02B	EtherCAT communication cable	0.3 m	RJ45		
	UC-EMC005-02B		0.5 m			
	UC-EMC010-02B		1 m			
	UC-EMC020-02B		2 m			
UC-EMC030-02B	3 m					
UC-EMC050-02B	5 m					
UC-EMC100-02B	10 m					
Industrial Communication Cable	UC-DN01Z-01A ^{*1}	DeviceNet / CANopen communication cable (Trunk cable - thick)	On customer's demand (up to 305 m)	--		DeviceNet / CANopen related models
	UC-DN01Z-02A ^{*1}	DeviceNet / CANopen communication cable (Drop cable - thin)		--		
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	--	--		--
	Data backup memory card (DVP-ES2 only)				DVP-E64FM	
	Data backup memory card (64k words)				DVPPCC01	
	Communication cable for PC (9-pin & 25-pin D-Sub) and PLC, 1.5 m				DVPACAB215	
	Communication cable for PC (9-pin & 25-pin D-Sub) and PLC, 3 m				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	
	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 RTU-EN01				DVPABT01	
	Terminal resistance for CANopen communication (RJ45)				TAP-TR01	
	Programming cable for TP Series				UCPRG030-10A	

*1: Not available in Taiwan



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