



## 2<sup>nd</sup> Generation Standard Slim PLC DVP-SS2

**Economic and Compact PLC**  
Max. 480 I/O points

- ▶ Adopts 32-bit CPU
- ▶ Program capacity: 8k steps/Data register: 5k words
- ▶ Execution speed: LD: 0.35μs, MOV: 3.4μs
- ▶ Built-in RS-232 and RS-485 ports (Master/Slave)
- ▶ Supports standard MODBUS ASCII/RTU protocol and PLC Link function

### Motion Control Functions

- ▶ 4 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

## 2<sup>nd</sup> Generation Advanced Slim PLC DVP-SA2

**Advanced PLC Supporting Left-side High Speed Modules**

- ▶ Adopts 32-bit CPU
- ▶ Program capacity: 16k steps/Data register: 10k words
- ▶ Execution speed: LD: 0.35μs, MOV: 3.4μs
- ▶ Built-in 1 RS-232 and 2 RS-485 ports (Master/Slave)
- ▶ Supports standard MODBUS ASCII/RTU protocol and PLC Link function
- ▶ No battery required. Maintenance-free.  
(Real time clock operates for 15 days after power off)
- ▶ Supports DVP-S series left-side and right-side modules

### 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



## 2<sup>nd</sup> Generation Analog I/O Slim PLC DVP-SX2

- Compact PLC with Outstanding Analog Functions
- 4 Analog Inputs, 2 Analog Outputs, High Efficient PID Auto Tuning Performance

- ▶ Adopts 32-bit CPU
- ▶ Program capacity: 16k steps/Data register: 10k words
- ▶ Execution speed: LD: 0.35μs, MOV: 3.4μs
- ▶ Built-in mini USB, RS-232 and RS-485 ports (Master/Slave)
- ▶ Supports standard MODBUS ASCII/RTU protocol and PLC Link function
- ▶ Supports real time clock for version 2.0 and above (no battery required) It operates for at least one week after power off
- ▶ Supports DVP-S series left-side and 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
- ▶ Supports 2-axis linear and arc interpolation

#### Built-in Analog I/O

Analog Input		Analog Output	
<b>Channels</b>	4	<b>Channels</b>	2
<b>Resolution</b>	12-bit	<b>Resolution</b>	12-bit
<b>Spec.</b>	-20 ~ 20mA or -10 ~ 10V 4 ~ 20mA	<b>Spec.</b>	0 ~ 20mA or -10V ~ 10V 4 ~ 20mA

## Network Type Advanced Slim PLC DVP-SE

- The most complete network type slim PLC in the industry
- Provides 8 digital inputs and 4 digital outputs
- Built-in mini USB, Ethernet, and 2 RS-485 ports

- ▶ Adopts 32-bit CPU
- ▶ Program capacity: 16k steps/Data register: 12k words
- ▶ Execution speed: LD: 0.64μs, MOV: 2μs
- ▶ Built-in Ethernet and supports MODBUS TCP and Ethernet/IP Slave (Adapter)
- ▶ IP Filter function is a firewall that offers the first line of defense and provides protection from malware and network threats
- ▶ Supports DVP-S series left-side and right-side modules
- ▶ No battery required. Maintenance-free (Real time clock operates for 15 days after power off)

### 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
- ▶ 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

# Pulse-train Motion Controller

## DVP-PM



### General Purpose Motion Controller

#### DVP10PM00M

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

#### ■ Motion Control Functions

- ▶ High-speed pulse output: built-in 6 sets of A/B phase pulse outputs
- ▶ 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 1<sup>st</sup> speed, 2<sup>nd</sup> speed, MPG function)
- ▶ Electronic gear function

### Professional Motion Controllers

#### DVP20PM00D/M/DT

- Compatible with G-code/M-code
- 3-axis linear/arc/helical interpolation
- Not only a motion controller but also an extension module
- ▶ Functions as an extension module with DVP-PM and DVP-EH2 series
- ▶ PM Series (as an extension module) requires only Start/Stop command from the main PLC to function as a stand-alone motion controller without the limitation of PLC cycle time

#### ■ Supports electronic cam (2048 points) function for flying shear and rotary cut applications

- ▶ Built-in 16 I/O points. Max. 512 I/O points
- ▶ Program capacity: 64k steps/Data register: 10k words
- ▶ Built-in RS-232 and RS-485 ports
- ▶ Supports standard MODBUS/ASCII/RTU protocol

#### ■ Motion Control Functions

- ▶ Built-in A/B phase differential signal outputs: 2 sets (DVP20PM00D)/3 sets (DVP20PM00M). Max. differential output frequency is 500kHz
- ▶ Supports MPG inputs
- ▶ Single-axis motion control function (supports 1<sup>st</sup> speed, 2<sup>nd</sup> speed, MPG function)
- ▶ Electronic gear function