



## 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
- ▶ Higher execution speed compared to the competition:  
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

## 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
- ▶ Higher execution speed compared to the competition:  
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  |
| 4/4             | 20kHz/10kHz | 2                | 20kHz     | 2/2              | 10kHz/5kHz |

#### 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 |

# S Series PLC

Compact, Flexible Extension!

## DVP-SS2

2<sup>nd</sup> Generation Standard Slim PLC



| Model name  | Specifications                              |
|-------------|---------------------------------------------|
| DVP14SS211R | ⓪ :DC power supply 8 Inputs 6 Outputs (R) → |
| DVP14SS211T | ⓪ :DC power supply 8 Inputs 6 Outputs (T) → |
| DVP12SS211S | ⓪ :DC power supply 8 Inputs 4 Outputs (S) → |

⓪ :DC power supply    8 : Inputs    6 : Outputs  
 (T) → : Transistor output (NPN)    (R) → : Relay output  
 (S) → : Transistor output (PNP)

## DVP-SX2

2<sup>nd</sup> Generation Analog I/O Slim PLC



| Model name  | Specifications                                      |
|-------------|-----------------------------------------------------|
| DVP20SX211R | ⓪ :DC power supply 8 Inputs 6 Outputs (R) → 4AI/2AO |
| DVP20SX211T | ⓪ :DC power supply 8 Inputs 6 Outputs (T) → 4AI/2AO |
| DVP20SX211S | ⓪ :DC power supply 8 Inputs 6 Outputs (S) → 4AI/2AO |

⓪ :DC power supply    8 : Inputs    6 : Outputs  
 (T) → : Transistor output (NPN)    (R) → : Relay output  
 (S) → : Transistor output (PNP)

## DVP-SA2

2<sup>nd</sup> Generation Advanced Slim PLC



| Model name  | Specifications                              |
|-------------|---------------------------------------------|
| DVP12SA211R | ⓪ :DC power supply 8 Inputs 4 Outputs (R) → |
| DVP12SA211T | ⓪ :DC power supply 8 Inputs 4 Outputs (T) → |

⓪ :DC power supply    8 : Inputs    4 : Outputs  
 (T) → : Transistor output    (R) → : Relay output



## DVP-SV2

High Performance Slim PLC

| Model name  | Specifications                                    |
|-------------|---------------------------------------------------|
| DVP28SV11R2 | ⓪ :DC power supply 16 Inputs 12 Outputs (R) →     |
| DVP28SV11T2 | ⓪ :DC power supply 16 Inputs 12 Outputs (T) →     |
| DVP28SV11S2 | ⓪ :DC power supply 16 Inputs 12 Outputs (S) →     |
| DVP24SV11T2 | ⓪ :DC power supply 10 Inputs 12 Outputs (T) → 2AI |

⓪ :DC power supply    16 : Inputs    12 : Outputs  
 (T) → : Transistor output (NPN)    (R) → : Relay output  
 (S) → : Transistor output (PNP)

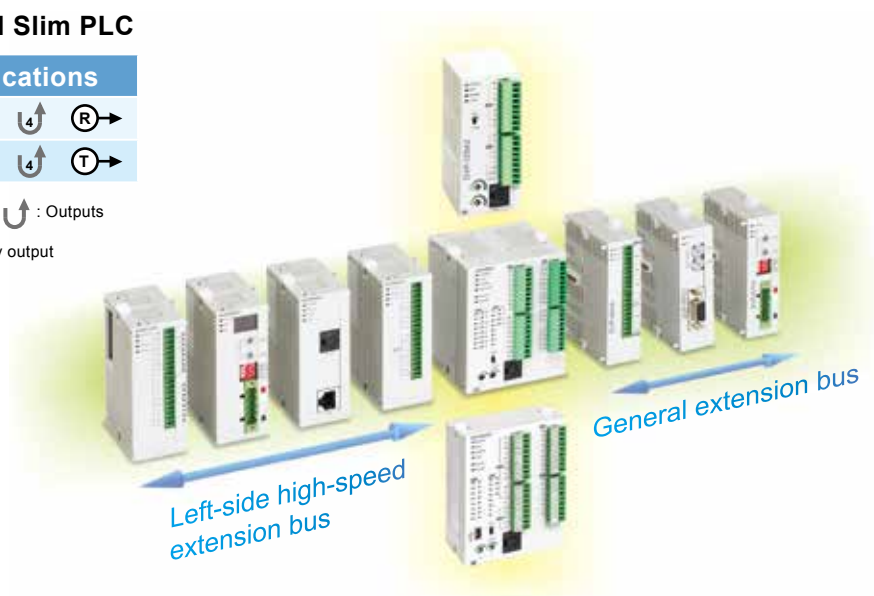
## DVP-SE

Network Type Advanced Slim PLC



| Model name | Specifications                              |
|------------|---------------------------------------------|
| DVP12SE11R | ⓪ :DC power supply 8 Inputs 4 Outputs (R) → |
| DVP12SE11T | ⓪ :DC power supply 8 Inputs 4 Outputs (T) → |

⓪ :DC power supply    8 : Inputs    4 : Outputs  
 (T) → : Transistor output    (R) → : Relay output



# Ordering Information

## S Series PLC

| Product name                                 | Power supply | Output method    | Inputs                            | Outputs | Model name  | Certificates                                                                                                                                                              |
|----------------------------------------------|--------------|------------------|-----------------------------------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SV2 series functional PLC                    | 24VDC        | Relay            | 16                                | 12      | DVP28SV11R2 |     |
|                                              | 24VDC        | Transistor (NPN) | 16                                | 12      | DVP28SV11T2 |                                                                                                                                                                           |
|                                              | 24VDC        | Transistor (PNP) | 16                                | 12      | DVP28SV11S2 |                                                                                                                                                                           |
|                                              | 24VDC        | Transistor (NPN) | 10 (2AI)                          | 12      | DVP24SV11T2 |                                                                                                                                                                           |
| Execution time of basic instructions         |              |                  | 0.24μs                            |         |             |                                                                                                                                                                           |
| SS2 series standard PLC                      | 24VDC        | Relay            | 8                                 | 6       | DVP14SS211R |     |
|                                              | 24VDC        | Transistor (NPN) | 8                                 | 6       | DVP14SS211T |                                                                                                                                                                           |
|                                              | 24VDC        | Transistor(PNP)  | 8                                 | 4       | DVP12SS211S |                                                                                                                                                                           |
| SA2 series advanced PLC                      | 24VDC        | Relay            | 8                                 | 4       | DVP12SA211R |                                                                                                                                                                           |
|                                              | 24VDC        | Transistor       | 8                                 | 4       | DVP12SA211T |                                                                                                                                                                           |
| SX2 series analog PLC                        | 24VDC        | Relay            | 8 (4AI)                           | 6(2AO)  | DVP20SX211R |                                                                                                                                                                           |
|                                              | 24VDC        | Transistor (NPN) | 8 (4AI)                           | 6(2AO)  | DVP20SX211T |                                                                                                                                                                           |
|                                              | 24VDC        | Transistor (PNP) | 8 (4AI)                           | 6(2AO)  | DVP20SX211S |                                                                                                                                                                           |
| Fastest execution time of basic instructions |              | 0.35μs           | Execution time of MOV instruction |         | 3.4μs       |                                                                                                                                                                           |
| SE network PLC                               | 24VDC        | Relay            | 8                                 | 4       | DVP12SE11R  |     |
|                                              | 24VDC        | Transistor       | 8                                 | 4       | DVP12SE11T  |                                                                                                                                                                           |
| Fastest execution time of basic instructions |              | 0.64μs           | Execution time of MOV instruction |         | 2μs         |                                                                                                                                                                           |
| SX series analog PLC                         | 24VDC        | Relay            | 4 (2AI)                           | 2 (2AO) | DVP10SX11R  |   |
|                                              | 24VDC        | Transistor       | 4 (2AI)                           | 2 (2AO) | DVP10SX11T  |                                                                                                                                                                           |
| Fastest execution time of basic instructions |              | 3.8μs            | Execution time of MOV instruction |         | 5.04μs      |                                                                                                                                                                           |

## 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, Latched connector                                                       | -                                                                 | 32                                                       | DVP32SN11TN |                                                                                                                                                                             |
|                   | Latched connector                                                                   | 32                                                                | -                                                        | DVP32SM11N  |                                                                                                                                                                             |
| Product name      | Description                                                                         |                                                                   |                                                          | Model name  | Certificates                                                                                                                                                                |
| Analog I/O module | • 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) <sup>1)</sup>  | • Input resolution: 14-bit (can switch to 16-bit)                 | • Built-in RS-485 interface                              | DVP04AD-S2  |   |
|                   | • 4 points of analog input voltage (0V~+10V)/current (0mA~+20mA) <sup>1)</sup>      | • Resolution: 14-bit (can switch to 16-bit)                       | • Built-in RS-485 interface                              | DVP04DA-S2  |                                                                                                                                                                             |
|                   | • Analog input+output module (6 points)                                             | • 2 points of analog output voltage (0V~+10V)/current (0mA~+20mA) | • Input/output resolution: 12-bit (can switch to 16-bit) | DVP06XA-S2  |                                                                                                                                                                             |
|                   | • 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA)                | • Built-in RS-485 interface                                       |                                                          |             |                                                                                                                                                                             |
|                   | • 4 points of analog input voltage (-10V~+10V)/ current (-20mA~+20mA) <sup>1)</sup> | • Built-in RS-485 interface                                       |                                                          | DVP04AD-S   |                                                                                                                                                                             |
|                   | • Input resolution: 14-bit                                                          |                                                                   |                                                          |             |                                                                                                                                                                             |