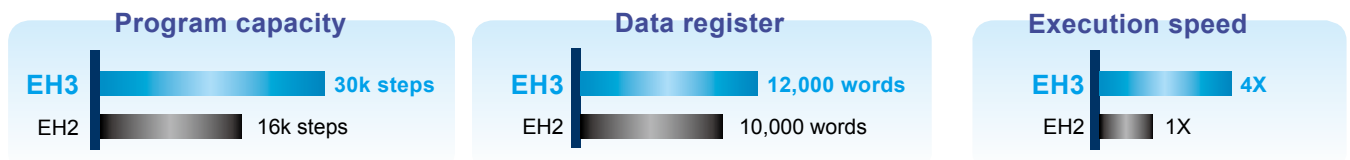




High Performance PLC

DVP-EH3

The new generation DVP-EH3 PLC is the high-end model of the Delta DVP-E series. It provides larger program capacity and data registers for more demanding and complex applications.



Excellent Motion Control

- ▶ High-speed pulse output: 4 axes of 200kHz pulse output (DVP40/48/64/80EH00T3)
- ▶ Supports max. 4 hardware 200kHz high-speed counters
- ▶ Increases many motion control instructions to meet applications that require high-speed and high-precision positioning control such as labeling machines, packaging machines and printing machines
- ▶ Offers linear/arc interpolation motion control
- ▶ Provides up to 16 external interrupt pointers

Complete Program Protection

- ▶ Auto backup function to prevent the loss of programs and data even when the battery runs out
- ▶ Second copy function provides a backup for extra insurance in the event that one set of programs and data are damaged
- ▶ Up to 4-level password protection protects your source programs and intellectual property

Outstanding Operation Performance

32-bit CPU + ASIC dual processors support floating point operations.

The max. execution speed of basic instructions is able to reach 0.24μs.

Flexible Function Extension Modules & Cards

Multiple selections of extension modules and function cards provide analog I/O, temperature measurement, additional single-axis motion control, high-speed counting, 3rd serial communication port and Ethernet communication card are available.

PLC Link

PLC Link allows users to link up a max. of 32 units to the network without having to install extra communication extension modules.

Built-in 4 Hardware High-Speed Counters

Standard		Hardware high-speed counter					
1-phase 1 input		1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Counters	Bandwidth	Counters	Bandwidth	Counters	Bandwidth	Counters	Bandwidth
8	10kHz	4	200kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz

*The specifications in this table are applicable only for DVP40EH00R3/DVP40EH00T3. For input/output specifications of other models, refer to the I/O specifications table in page 20.

Model name	Specifications
DVP16EH00R3	Ⓐ 8 8 Ⓡ 2 counters of 200kHz input
DVP16EH00T3	Ⓐ 8 8 Ⓣ 2 counters of 200kHz input, 2 axes of 200kHz output
DVP20EH00R3	Ⓐ 12 8 Ⓡ 2 counters of 200kHz input, 1 counter of 20kHz input
DVP20EH00T3	Ⓐ 12 8 Ⓣ 2 counters of 200kHz input, 2 axes of 200kHz output
DVP32EH00R3	Ⓐ 16 16 Ⓡ 4 counters of 200kHz input
DVP32EH00T3	Ⓐ 16 16 Ⓣ 4 counters of 200kHz input, 2 axes of 200kHz output
DVP32EH00M3	Ⓐ 16 16 Ⓜ 4 counters of 200kHz input (Differential: 2 sets), 2 axes of 200kHz output (Differential)
DVP32EH00R3-L*	Ⓐ 16 16 Ⓡ 4 counters of 200kHz input
DVP32EH00T3-L*	Ⓐ 16 16 Ⓣ 4 counters of 200kHz input, 2 axes of 200kHz output
DVP40EH00R3	Ⓐ 24 16 Ⓡ 4 counters of 200kHz input
DVP40EH00T3	Ⓐ 24 16 Ⓣ 4 counters of 200kHz input, 4 axes of 200kHz output
DVP48EH00R3	Ⓐ 24 24 Ⓡ 4 counters of 200kHz input
DVP48EH00T3	Ⓐ 24 24 Ⓣ 4 counters of 200kHz input, 4 axes of 200kHz output
DVP64EH00R3	Ⓐ 32 32 Ⓡ 4 counters of 200kHz input
DVP64EH00T3	Ⓐ 32 32 Ⓣ 4 counters of 200kHz input, 4 axes of 200kHz output
DVP80EH00R3	Ⓐ 40 40 Ⓡ 4 counters of 200kHz input
DVP80EH00T3	Ⓐ 40 40 Ⓣ 4 counters of 200kHz input, 4 axes of 200kHz output

Ⓐ :AC power supply ⤵ :Inputs ⤴ :Outputs Ⓡ :Relay output Ⓣ :Transistor output Ⓜ :Differential output
 *Supports left-side high-speed extension.

Digital I/O Modules

Input Point Extension

DVP08HM11N
DVP16HM11N
DVP32HM11N



Output Point Extension

DVP08HN11R/T
DVP32HN00R/T



Input/Output Point Extension

DVP08HP11R/T
DVP16HP11R/T
DVP32HP00R/T
DVP48HP00R/T



Analog I/O Modules

Analog Function Extension

Analog Input

- DVP04AD-H2
V : 14-bit
I : 13-bit
- DVP04AD-H3
V : 16-bit
I : 16-bit



Analog Output

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



Analog Input/Output

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



Temperature Measurement

Sensor:PT100

- DVP04PT-H2



Sensor:

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



Motion Control

Single-Axis Positioning

- DVP01PU-H2



DVP32EH00R3-L & DVP32EH00T3-L are also compatible with left-side high-speed extension modules for DVP-SV2 series.

High-Speed Counter

- DVP01HC-H2



Ordering Information

ES2/EX2 Series Digital/Analog Module (DC24V)

Product name	Output method	Inputs	Outputs	Model name	Certificates
ES2/EX2 series 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	
ES2/EX2 series analog I/O module	4 points of analog voltage (10V, 5V) / current (20mA, 0~20mA, 4~20mA) input ^{*1} - Resolution: 14-bit (-32,000~+32,000)			DVP04AD-E2	 
	4 points of analog voltage (-10V~+10V) / current (0~20mA, 4~20mA) output ^{*1} - Resolution: 14-bit (-32,000~+32,000) / (0~+32,000)			DVP04DA-E2	
	2 points of analog voltage (-10V~+10V) / current (0~20mA, 4~20mA) output ^{*1} - Resolution: 14-bit (-32,000~+32,000) / (0~+32,000)			DVP02DA-E2	
	4 points of analog voltage (10V, 5V) / current (20mA, 0~20mA, 4~20mA) input ^{*1} - Input resolution: 14-bit (-32,000~+32,000) 2 points of analog voltage (-10V~+10V) / current (0~20mA, 4~20mA) output - Output resolution: 14-bit (-32,000~+32,000) / (0~+32,000)			DVP06XA-E2	
ES2/EX2 series 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	
	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	
Absolute resolver module	- Converts 1 set of resolver input signal (angle/speed) into digital signals - Resolution: 12-bit - Supports disconnection detection for distance up to 50m			DVP10RC-E2 ^{*2}	

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

*2. Contact Delta sales representative or distributors for the official launch date.

EH2/EH3 Series PLC

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
EH2/EH3 series standard PLC	100~240VAC	Relay	8	8	DVP16EH00R3	 
	100~240VAC	Transistor	8	8	DVP16EH00T3	
	100~240VAC	Relay	12	8	DVP20EH00R3	
	100~240VAC	Transistor	12	8	DVP20EH00T3	
	100~240VAC	Transistor	16	16	DVP32EH00T3	
	100~240VAC	Relay	16	16	DVP32EH00R3	
	100~240VAC	Differential	16	16	DVP32EH00M3	
	100~240VAC	Relay	16	16	DVP32EH00R3-L	
	100~240VAC	Transistor	16	16	DVP32EH00T3-L	
	100~240VAC	Transistor	24	16	DVP40EH00T3	
	100~240VAC	Relay	24	16	DVP40EH00R3	
	100~240VAC	Relay	24	24	DVP48EH00R3	
	100~240VAC	Transistor	24	24	DVP48EH00T3	
	100~240VAC	Relay	32	32	DVP64EH00R3	
	100~240VAC	Transistor	32	32	DVP64EH00T3	
	100~240VAC	Relay	40	40	DVP80EH00R3	
	100~240VAC	Transistor	40	40	DVP80EH00T3	
Execution time of basic instructions			0.24μs			