



Automation for a Changing World

Delta Multi-axis Motion Controller DVP15MC/50MC

6-axis / 24-axis Motion Controllers

- PLC-based multi-axis motion controllers designed for the CANopen/EtherCAT network architecture
- CANopen (DVP15MC)/EtherCAT (DVP50MC) with built-in motion control instructions (BufferMode and Jerk)
- Controls up to 24 real axes:
 - single axis motion control instructions such as speed, position, torque, homing, position setup
 - multi-axis motion control instructions such as electronic gear, electronic cam (E-Cam), rotatory cut and G-code
- Compatible with Delta AC Servo Drives (ASDA Series) via motion port

1 Motion Control

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

2 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(s): DVP15MC*2
DVP50MC*1
- 1 SD card slot
- 1 RS-232 port and 1 RS-485 port
- Extension:
 - Left-side: supports up to 8 DVP-S Series PLC modules (master/slave/load cell modules)
 - Right-side: compatible with DVP-S Series PLC modules (240 I/O points, 8 special modules)



3 Performance

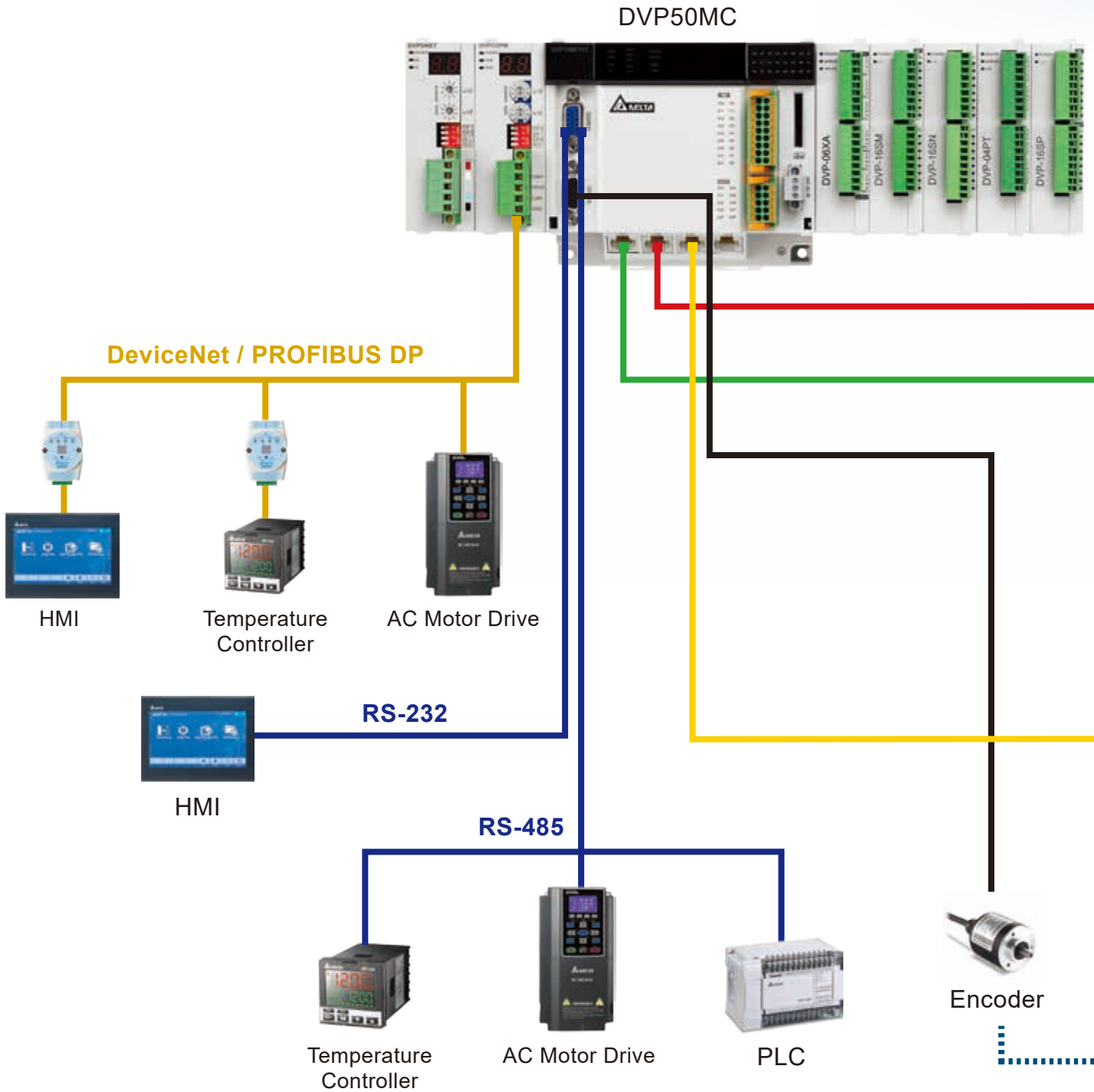
- 1 GHz high-speed floating point operation
- High-precision computing: supports LREAL (Double-precision floating-point format)
- Synchronization time:
 - DVP15MC: 4 axes in 2ms, 8 axes in 4ms
 - DVP50MC: 32 axes in 1ms
- Program capacity: 20 MB
- Data capacity: 20 MB

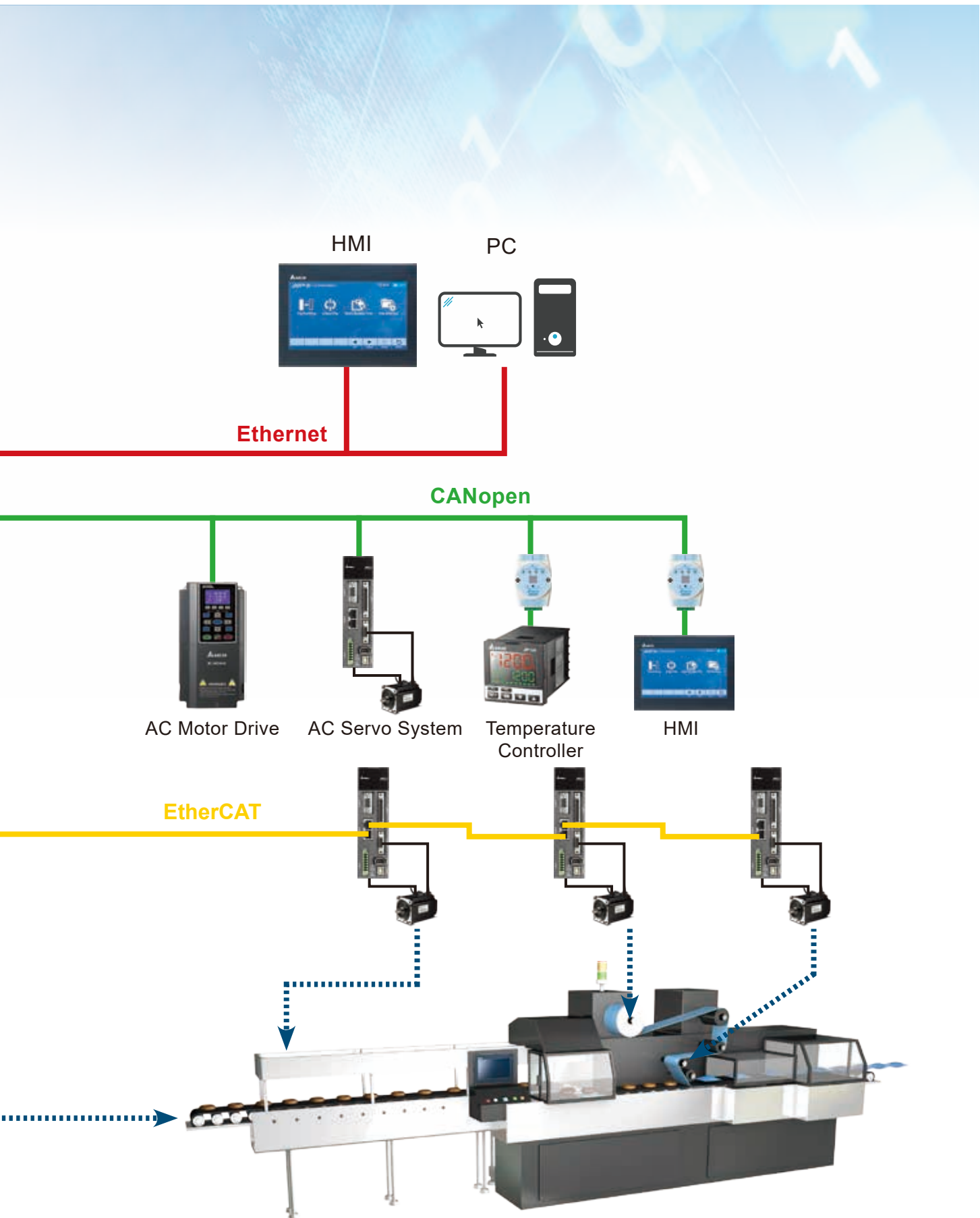
4 Motion Network and Wiring

- 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


System Structure

The DVP15MC/DVP50MC Series provides multiple industrial networks with compatible communications: Ethernet (upper layer), EtherCAT, CANopen, DeviceNet, PROFIBUS DP (middle layer) and RS-485 (lower layer, support Modbus).

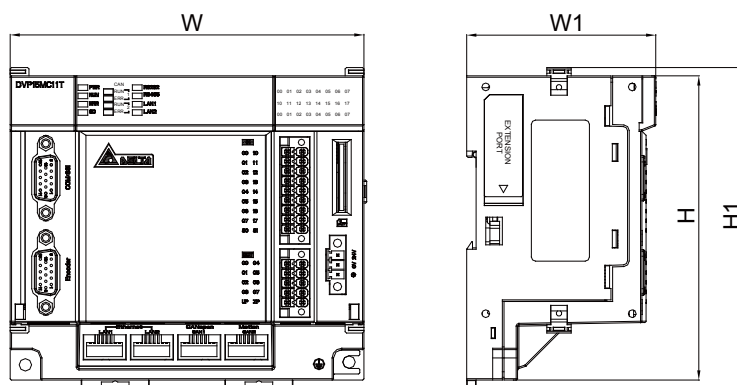




Ordering Information

Product Name	Multi-axis Motion Controller			
Power Supply	24V _{DC}			
Communication Protocol	CANopen DS402		EtherCAT	
Total Axes	32	16	32	16
Real Axes Control	24	6	24	6
Input	16	16	16	16
Output	8	8	8	8
Model Name	DVP15MC11T	DVP15MC11T-06	DVP50MC11T	DVP50MC11T-06
Certificates				

Dimensions (Unit: mm)



Model Name	H	H1	W	W1	Model Name	H	H1	W	W1
DVP15MC11T	110	116.2	128	68.4	DVP50MC11T	110	116.2	128	68.4
DVP15MC11T-06	110	116.2	128	68.4	DVP50MC11T-06	110	116.2	128	68.4

Applications



Machine Tool

- High-speed cutting machine
- CNC lathe
- Digital board cutting machine
- Polishing machine
- Edge sharpening machine
- Full servo milling machine



Electronics Manufacturing/Process

- Flexible printed circuit (FPC) inspection
- Carborundum coiling machine
- Carborundum electroplating machine
- Filming machine
- Feeding machine



Packaging

Beverage injecting machine



Printing

Woven bag printing machine



Smarter. Greener. Together.

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