

Programmable Multi-Axis Controller

CK3E

A controller with a width of only 28.6 mm provides complete control



EtherCAT®



High-speed multi-axis control

- Up to 32 axes of control
- Motion control period: 250 µs or more



Flexibility

- CAD/CAM for easy motion control
- Flexible function development capability enables high-precision curve machining



Saving space & wiring

- Footprint reduced to 1/4 (Based on Omron investigation)
- EtherCAT for flexible system configuration

One of Omron's aims is to help manufacturers build advanced Motion Control systems at a low cost

In order to achieve this, Omron and Delta Tau Data Systems, Inc. are working together as one Omron Group to improve sophisticated Motion Control and Programmable Logic Control systems. These are the systems that are required for the next generation's automation systems around the world.

By combining global leading Delta Tau Data Systems' Motion Control technologies, Omron ILO+S (Input, Logic, Output, and Safety) control technologies can open up new applications and solutions.

The CK3E is a controller designed for precise multi-axis control.

You can build a system capable of controlling up to 32 axes of motion and incorporate customized control algorithms into the system.

The CK3E allows you to program in C language and reuse existing software assets. The compact design saves space in machines and control panels. EtherCAT® connects servo drives, I/O, and other devices to the CK3E, reducing the number of cables.

A cost-effective system to provide high-performance motion control

The CK3E can be integrated into your existing system. Consult with your Omron representative even if your system is composed of hardware from other vendors.



Ordering Information

Programmable Multi-Axis Controller

Product	Specifications			Model
	Memory	Ports	Number of motion axes	
Programmable Multi-Axis Controller CK3E	DDR3 memory:1GB Flash memory:1GB	Ethernet port:1 EtherCAT port:1	8	CK3E-1210
			16	CK3E-1310
			32	CK3E-1410

Programmable Multi Axis Controller

The Programmable Multi Axis Controller has been developed by US-based Delta Tau Data Systems, Inc. to deliver the world's highest level* of multi-axis control performance.

Providing the high-speed processing capability to perform precise linear motor drive control and nanometer positioning that require ultra fast responses, the Programmable Multi-Axis Controller is appreciated by manufacturers of semiconductor manufacturing equipment and other products employing leading-edge technologies.

Through working together with Delta Tau Data Systems which joined the Omron Group on September 1 2015, Omron will further advance automation technologies in an ever-changing manufacturing environment to help manufacturers improve productivity and manufacturing quality.

* "The world's highest level" refers to the motion control performance of 16.6 microseconds/1 axes or 50 microseconds/8 axes (Omron survey as of July 2016).

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