

RT-Motion Controller



What is RT-Motion Controller?

High-powered PC based motion controller

It is the real time motion controller on a PC platform.
It can exert a higher calculation performance incomparably than conventional motion controllers since it uses CPU power for latest CPU of PC.
You can achieve high-speed and high-precision control since it adopts high-speed fieldbus such as EtherCAT / MECHATROLINK.
You can also add Windows OS as an option.



Simple introduction steps

You don't need complicated steps for using RT-Motion Controller.
It can functionate as an RT-Motion Controller only connecting with power.
It can be used for various use such as grinding / cutting / drilling / laser beam machining / welding / dispense / fabrication /convey / robot / winding / 3D measurement / inspection machine etc..

EtherCAT® for Machine Control

RT-Motion Controller adopts a high-speed fieldbus "EtherCAT®" for servo driver control, I/O control etc..
EtherCAT is a fieldbus which enables you to achieve high-speed and high-precision machine control.
RT-Motion Controller has EtherCAT® and EtherCAT ports as standard, so you can achieve multi-axes control with wire-saving and high-speed.

Lineup for RT-Motion Controller

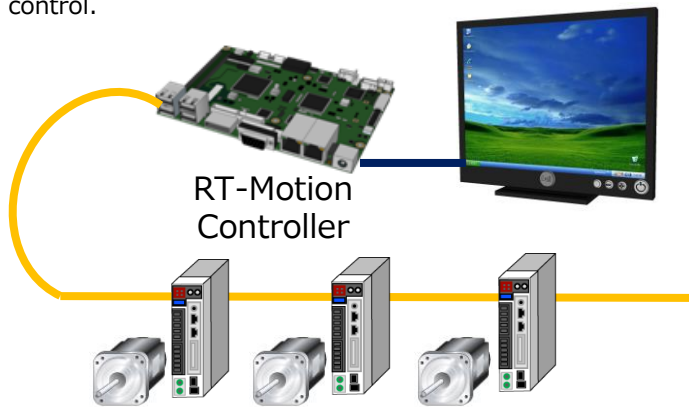
Model	Board Computer	Compact
Aspect		
CPU	Atom N2600 1.60GHz	Atom D510 1.66GHz
Extension	-	PCI 2 slot
Description	For embed board. Standard Implement of serial /LAN ports / display terminal though the size is small.	Small modes without fan. It has 2 PCI slots. Moreover, you can also use internal DI/O ports (DI:12 / DO 12).

※ We can suggest PC other than above mentioned on demand, please ask our sales in detail.

System Composition for RT-Motion Controller

PC based Powerful Controller

RT-Motion Controller is a PC-Based Motion Controller. It can exert a higher calculation performance incomparably than conventional motion controllers since it uses CPU power for latest CPU of PC. Moreover you can also have Windows OS since it is PC-based You can achieve HMI doing high-speed motion control.



Sophisticated Motion Control Engine "RTMC"

RT-Motion Controller has implemented sophisticated motion control engine satisfying customers' requirements. Motion Engine "RTMC" developed by TECHNO Co.,Ltd. has several hundred cases. TECHNO Co.,Ltd. Has many track records in motion control fields. "RTMC" can achieve various kinds of motion control such as Acceleration / Deceleration Control, Multi-Axis Control and so on. These functions can be achieved via shared memory from user applications.

Specifications for RT-Motion

Axis Command	Maximum 16 axes Positioning / Velocity / Torque Control
Available Fieldbus	EtherCAT (CiA402 Driver Profile) MECHATROLINK-III
Communication	Shared Memory
Control Period	0.125 / 0.25 / 0.5 / 1 / 2 [ms]
Development Language	C/C++/C#/IEC61131-3
Standard I/O	TCP/IP,UDP/IP,USB, RS232C

Function List for Motion Control

	Name	Description
Axis Control	Multi Axis Control	Axes Choice(9axes/task) Continuous Trajectory with minute interpolation
	Synchronous Axis Control	Parallel Axis / Synchronous Axis / Gantry
	INPOS	In Position Check
Acceleration / Deceleration Control	Linear	Positioning · Jog for Acc /Dec
	S shape Interpolation	Interpolation Feed for Acc /Decel
Auto Feed/Manual Feed	Path Functions	Non-Stop between blocks
	Origin	Auto return on power ON
	Override	Velocity change in operation
	Torque Command	Torque command /limit / observe
Main Axis Control	Main Axis ON/OFF	ON/OFF, CW/CCW
Offset	B.L compensation	Back lash compensation
	P.E compensation	Pitch error compensation
Coordinate	origin setting	Logical origin setting
	Logical / Absolute coordinates	Logical / Absolute coordinates

*Above mentioned are abstracts.

Product Composition

No	Name	Descriptions
1	RT-Motion Controller	RT-Motion Controller
2	Dedicated Installer of operation software	Installer of operation software connected via TCP/IP by Windows.
3	Configurator for Servo Unit	Software for configuring connected servo units.

Please feel free to ask our sales staff regarding product details and how to purchase.

⚡ EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH. ⚡ Other products are trademarks or registered trademarks of each company

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※ The specifications in this catalog might change without any previous notice.