64-Axis Multi-Function Soft Motion Controller

WMX3 with Realtime Express

Manufacturer/

Distributor:



<Advantages of hybrid controls>

If you feel...

- Not enough I/O points left for operations.
 A large number of nodes sacrifices the communication cycle.
 I/O modules are too costly.
- Want to choose the right I/O module from a lot of options.

Hybrid Network can provide solutions

- High-performance RTEX servo network for axis control requiring high synchronization
- High cost performance EtherCAT modules for I/O control and stepper motors.
- Soft motion enables high-speed real time control over the servo network and I/O network.

Features

RTEX and EtherCAT. Soft Motion technology gets the best of both worlds.

- Proven high-performance motion controller WMX3 (patented) now supports "hybrid" networks that simultaneously communicate with the high-speed networks RTEX and EtherCAT. Up to 64 axis synchronous control is possible.
- Applying RTEX to the servo network and EtherCAT to the sub-network enables using cost effective EtherCAT I/O modules.
- Advanced functions such as gantry control and various acceleration/deceleration profiles can be easily realized.

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Integrated into one PC. Slimming. Networking.

- WMX3 enables the integration of operation screens, image processing, and motion control applications of up to 64-axis for a slimmer control device.
- Reduced wiring man-hours and material costs by reducing wiring through networking. Contributes to noise immunity.
- Use a commercially available Windows PC: Users can freely choose between PCs for small embedded applications as well as high-spec industrial applications depending on the user's application and concept.

Specification (Motion)

Positioning	64-axis * Simultaneous override (Dynar
Acceleration / Deceleration Profiles	Speed curve: Trapezoid, S-Cur trapezoid, Acceleration curve: S
Interpolation Types	Linear, Arc, 3D Arc, Helical, PV
Continuous Trajectory	Combination of straight line and Linear / Circular continuous tra
Gantry Control	Complete synchronous gantry
Event	Register triggers (reach axis ta I / O output, etc.) and execute r
API Buffer	Register the motion API in the E Execution waits and branches
Position synchronization output (PSO)	Real-time output of I / O at the on the communication cycle). V at 1 pulse level is possible with
Synchronization Control	Simple synchronization, synchronization, synchronization correction, dynamic synchronization, dynamic synchronization.
Electronic Cam	8 cam curves can be defined. C manipulation. clutch.
Return to Origin	Index pulse, origin sensor, limit mechanical end, etc. It is possi
I/O	11600 inputs / 11600 outputs, S
Compensation Function	Pitch error, Backlash, Straightn
API Supported Language	C Language (C/C++), .NET Lar
Development Environment	Microsoft Visual Studio 2012, 2
Recommended Operating Environment	OS: Windows 7(32-bit/64-bit), V CPU: Min. ATOM 2 GHz (E384

Sales area

Asia North America

Europe

For more information

URL: http://www.movensys.com



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mic destination can be changed)

rve, Jerk, Two-Step Speed, Acceleration time specification S-Curve, Quadratic Curve, Sine Curve

Т

d Arc, Spline interpolation, Automatic prefetch speed control, jectory with rotating stage

control

rget value, I / O input, etc.) and actions (start axis movement, real-time operations

buffer and perform real-time operation. can be made depending on conditions.

specified position (position comparison performance depends When more precise operation is required, position comparison a dedicated hardware option.

ronous gear ratio / offset specification, synchronization ynchronization axis setting / change / cancel. Multiple axes (up to 32 sets for RTEX) can be defined for single-axis to multi-

Cam curve for each communication cycle. Phase

sensor, limit proximity sensor, external input signal, ble to return to the origin of the gantry axis.

Supports most commercial EtherCAT I/O modules

ess correction

nguages (C#,VB), .NET Framework: 4.0 or later

2013, 2015, 2017, LabVIEW, Python 3.6

Windows 10 (64-bit), IoT Enterprise LTSC 5, etc.) 2 cores or more, Memory: 4 GB or more

Language

KoreanEnglish

JapaneseChinese