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TECHNOLOGY GROUP

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ACS Motion Control SpiiPlus CM



ACS Motion Control's SPiiPlus CM is an advanced, stand-alone, high performance, multi-axis motion controller for OEM machinery that requires multi-axis synchronization. The controller is furnished with a convenient D-Type connectivity interface.

Features include:

- Two or three Internal Digital Drives with space vector modulation
- Controls up to eight axes by external P/D Stepper drives, or HSSI-ED2 module
- Meets the requirements of the most demanding applications without compromising accuracy or throughput
- 20kHz deterministic sampling rate, independent of the number of axes
- Two power levels: 5A (10A peak) and 10A (20A peak)
- Drive supply: single phase 100Vac to 240Vac (90Vdc to 125Vdc) or low voltage (ordering option) 24Vdc-120Vdc or three phase 230Vac phase-to-phase
- Supports a wide range of motion modes, including point-to-point, jog, segmented, master-slave, and arbitrary path with PVT cubic interpolation
- Third-order profile generation with on-the- fly velocity, acceleration, jerk and target position changes
- Sub-nanometer resolution using optional Sin-Cos encoders with a multiplier factor up to 65,536
- High sample rate with digital, incremental encoders for all axes
- Simultaneous host communication through 10/100 baseT Ethernet or RS-232/422
- Powerful I/O handling with advanced PLC capabilities
- Position Event Generator (PEG) with sub-microsecond delay
- Position registration (MARK) with sub- microsecond delay
- Powerful ACSPL multi-tasking and programming language
- Advanced PIV algorithm, notch and low pass filters, feature 20kHz execution rate for all control loops
- Full suite of software tools for setup, tuning, application development and troubleshooting
- Unique multi-axis motion simulator for rapid application development
- Distributed axes and I/O expansion with HSSI-IO16 and HSSI-ED2 modules
- C/C /VB Library support for Windows 98/NT/2000/ME/XP, Venturecom RTX and On-Time
- Extensive COM libraries for Visual Basic™, LabView™ and more (emission) and EN50082-2 (immunity)

Compatible Products

These products are compatible with ACS Motion Control SpiiPlus CM. Contact us today to order pre-assembled parts from Servo Systems. For more information visit our Value-Added Service page



Baldor NextMove e100

Provides solutions for management of real-time Ethernet networks and Mint programming language via the industry standard protocol ETHERNET Powerlink.



Baldor MotiFlex™ e100

MotiFlex™ e100 is the latest generation of 3 phase drive from Baldor. System architecture is simplified by a single, highly flexible drive and motion control platform.



Baldor MicroFlex e100

Can be configured in this mode and is ideal for axis functions such as guides, indexers, conveyors, tension rollers etc.

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- Manufactured under ISO 9001: 2000 certified quality management system, meeting stringent safety and EMC standards and is CE marked

For more information visit our support center

SPECIFICATIONS

		Axes Types and Names			Total Number of Axes
		To direct-connected Motors	To direct-connected Drives	To HSSI-networked Axes	
	Supported Motors:	DC Brush, DC Brushless	Stepper (open loop)	DC Brush or Brushless (communication by drive)	
SPiiPlus CM-1...	Two HSSI (default)	X	Y	A,Y,B	4
	Four HSSI channels	X	Y,Z,T	A,Y,B,Z,C,T,D	8
SPiiPlus CM-2...	Two HSSI (default)	X,A	Y	Y,B	4
	Four HSSI channels	X,A	Y,Z,T	Y,B,Z,C,T,D	8
SPiiPlus CM-2...XY	Two HSSI (default)	X,Y	-	A,B	4
	Four HSSI channels	X,Y	Z,T	A,B,Z,C,T,D	8
SPiiPlus CM-3...	Two HSSI (default)	X,Y,A	-	B	4
	Four HSSI channels	X,Y,A	Z,T	B,Z,C,T,D	8

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