

Motion Control Products					
Section	Feature	MAX2000	MAX3000	MicroMAX R	SILENTStep
General Specification	Type	Servo	Servo/Stepper	Servo/Stepper	Hybrid Stepper
	Variants	2	864	8	1
	Design Modularity	1 Node / Port	12 nodes / Port or Stand alone	12 Node / Port or Stand alone	1 Node / Port
	Serviceability	All in one design	All in one design	Single axis design	Single axis design
	Number of axis	3	2/3/4	1	1
Networking / Architecture	Architecture Options	Host driven (distributed)	Host driven (distributed) Stand alone	Host driven (distributed) Stand alone Peer to peer	
		Pulse and Direction	Pulse and Direction	Pulse and Direction	Pulse and Direction
	Peer to peer networking	No	No	Yes	No
	Network Types	RS232	RS232 RS485 RS422 Firewire B CAT5 TCP/IP Ethernet	RS232 RS485 RS422 Firewire B CAT5 TCP/IP Ethernet	RS232 (Setup Only)
	Network Bandwidth (Theoretical)	RS232 - 115kbps	RS232 115.2 kbps RS485 921.6 kbps Firewire 100 Mbps Ethernet 921.6 kbps	RS232 115.2 kbps RS485 921.6 kbps Firewire 100 Mbps Ethernet 921.6 kbps	None
	Real Network Bandwidth (Windows)	RS232 - 100kbps	RS232 100 kbps Firewire 2 Mbps Ethernet 120 kbps	RS232 115.2 kbps Firewire 2 Mbps Ethernet 120 kbps	
	Commutation Options	Trapezoidal	Trapezoidal Sinusoidal Trapezoidal startup, Sinusoidal Run Time	Trapezoidal Sinusoidal Trapezoidal startup, Sinusoidal Run Time	Sensorless Sinusoidal
Motor	Motor types	Brushed Brushless Voice coil	Brushed Brushless Stepper Voice coil	Brushed Brushless Stepper Voice coil	Stepper
	Encoder support	Incremental (Single ended) Incremental (Differential)	Incremental (Single ended) Incremental (Differential) Serial Absolute	Incremental (Single ended) Incremental (Differential) Serial Absolute Sine / Cosine Heidenheim* (ENDAT 2.0) Tamagawa Serial Encoder	None
	Memory / Programming	Memory Capability	Setup Parameters Only	Medium – Parameters and user Programs	High – Parameters, user Programs and Trajectory Equations
	User Processing	None	User logic	User programs and equations	None
	Programming Options	C/C++ Programming Windows Only	ANSI C/C++ – OS independent Stand Alone (Agile Language)	ANSI C/C++ – OS independent Stand Alone (Agile Language)	None
	Application software	MAXWin	DPWin	DPWin	DP-SS
	Host Library	MAXVclLib	MAXCLib	MAXCLib	None
	Event response mechanism	No	Yes	Yes	No
User Inputs / Outputs	Opto Inputs	4	4-16	2	None
	Differential Inputs	6	2-4	2	None
	Analog Inputs	4	2-4	2-4	None
	Opto Outputs	4	2-4	2	None
	High Current Outputs		2-4	2	None
	Input position latch	Low speed	High speed	High speed	None
Amplifier Options	Voltage	1-85V	1-90V	1-90V	1-75V
	Pk Current (A)	3	1/3/5/15	1/3/5/15	8A

*on request