



ACS Motion Control

*Your Partner for High Performance
Motion Control*

Products Overview



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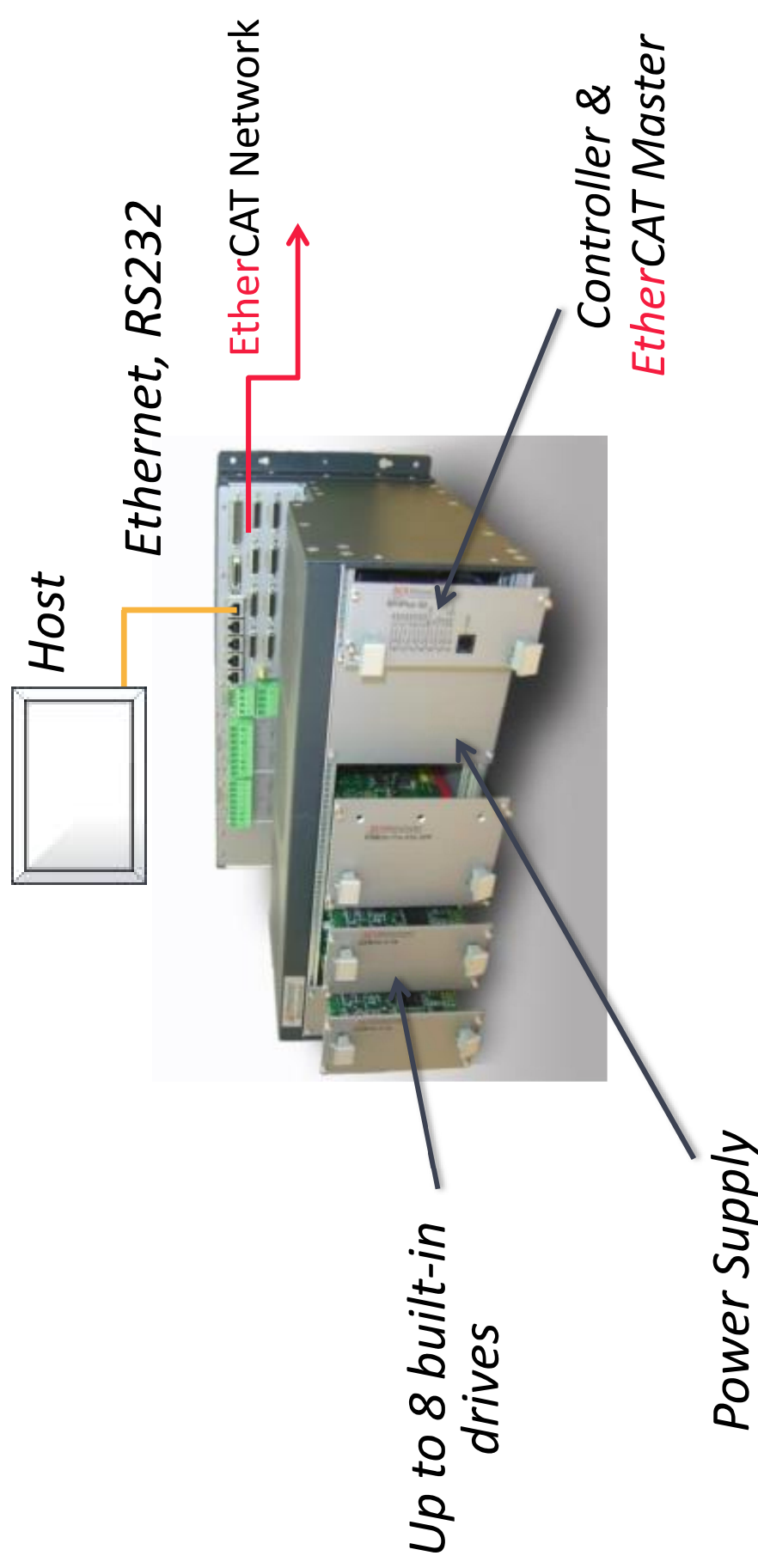
MC4U

Modular Control Module



MC4U

Tailored Control Module



MC4U

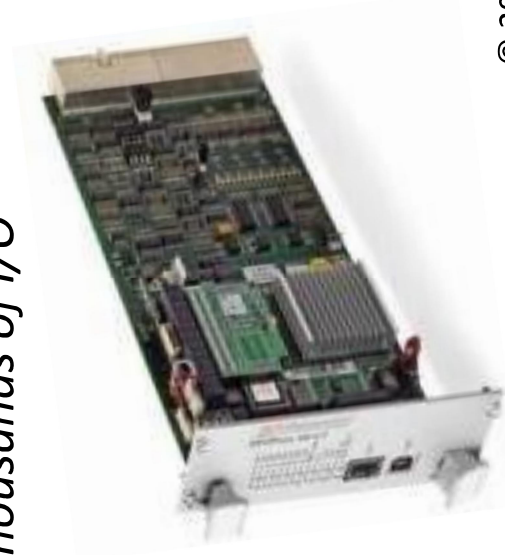
Wide Range Of Components

- > SPiiPlusNT line of EtherCAT controllers
- > SPiiPlusDC line of EtherCAT slaves Drive Controllers
- > DDM3U PWM drives
- > DDM3U *NanoPWM*TM drives
- > LDM3U digitally controlled linear drives
- > PSM3aU power supplies
- > Enclosures



Powerful EtherCAT Motion Controllers

- > *SPIiPlusNT-LT*
- > *Economical controller & EtherCAT Master*
- > *Direct control of 4, 8 built-in drives*
- > *12 bits ADC for current and SIN-COS*
- > *EtherCAT network*
- > *Up to 64 axes*
- > *Thousands of I/O*
- > *SPIiPlusNT-HP/LD/NP*
- > *High Performance controllers & EtherCAT Master*
- > *Direct control of 4, 8 built-in drives (HP, LD) 2, 4 NanoPWM™ built-in drives (NP)*
- > *Customized control algorithms (by ACS)*
- > *Fast 10MHz SIN-COS encoder multipliers (LD and NP only)*
- > *16 bits ADC for current and SIN-COS*
- > *16 bits drive commands (LD only)*
- > *EtherCAT network*
- > *Up to 64 axes*
- > *Thousands of I/O*



EtherCAT Drive Controllers

- > SPiiPlusDC-LT
 - > Economical Drive Controller for 4, 8 drives/axes
 - > 12-bit ADC for current & analog SIN-COS encoders
- > SPiiPlusDC-HP/LD/NP
 - > High performance Drive Controllers for 4, 8 drives/axes
 - > Customized control algorithms
 - > Fast 10MHz SIN-COS encoder multipliers (LD and NP only)
 - > 16 bits ADC for current and SIN-COS encoders
 - > 16-bit drive commands (LD only)



Wide Line of Digital Drive Modules

100W to 10kW

- > DDM3U-4-320V-1A/2A/3A
 - > 4 drives per module, 120-320Vdc
 - > 1/2A (Cont / Peak) to 3/6A
- > DDM3U-2-320V-5A/10A/15A/20A
 - > 2 drives per module, 120-320Vdc
 - > 5/10A (Cont / Peak) to 20/40A
- > DDM3U-1-320V-30A/45A
 - > 1 drive per module, 120 – 320Vdc
 - > 30/60A & 45/90A
- ✓ High performance
- ✓ Low position jitter
- ✓ Smooth constant velocity
- ✓ Digitally controlled
- ✓ Simple configuration and setting
- ✓ STO – Safe Torque Off



MC4U

NanoPWM™ Drives

NanoPWM™

- > DDM3U-1-100V-15A-NP
 - > 15/30A (Cont / Peak)
 - > 24 – 100Vdc
- > DDM3U-1-320V-15A-NP
 - > 15/30A (Cont / Peak)
 - > 24 – 320Vdc
- > Ultimate solution for:
 - > Wafer inspection stages
 - > FPD inspection
 - > Linear stages with demanding high acceleration, high speed, standstill jitter and velocity smoothness requirements

Linear Drives Low Jitter and Noise

- > LDM3U-55V-8A/16A/25A
 - > 4/8A (Cont/Peak) to 6.25/25A)
 - > 45 – 55Vdc
 - > LDM3U-28V-8A/16A
 - > 4/8A & 4/16A
- > Digitally controlled (!)
 - > Sub-nano standstill jitter
 - > Outstanding velocity smoothness
 - > Lowest EMI



...And Matching Power Supplies

- > PSM3U-320V
 - > 4kW to 20kW
 - > 85 to 265Vac input
 - > output = 1.4xVac
- > PSM3U-48V
 - > 0.7kW & 1.4kW
 - > 115/230Vac input
 - > 48Vdc output

- > PSM3U-320V/48V
 - > Dual voltage
 - >> 1.4xVac, 8kW
 - >> 48Vdc, 0.7kW

- > PSM3U-560V-7kW
 - > 7kW
 - > 400Vac input
 - > 560Vdc output
- > PSM3U-100V-3kW
 - > 3kW
 - > Up to 70Vac or 100Vdc input
 - > For NanoPWM™ drives



All Integrated In One Compact Enclosure



Two axes – 9"



Six axes – 11"



Eight axes – 19"



Eight axes – 22"



Thank You

30⁺ Years of
Smarter
Motion

ACS
MOTION CONTROL