SERCOS Interface Modules

The SERCOS interface modules use a single, digital fiber-optic link, which eliminates as many as 18 digital wires per axis. Detailed drive-status information can be sent from drive to controller and from controller to drive.

The SERCOS interface modules can connect to these servo drives:

- 2093 Kinetix 2000 multi-axis servo drive
- 2094 Kinetix 6000 multi-axis servo drive
- 2099 Kinetix 7000 high-power servo drive
- 2098 Ultra3000 SERCOS servo drive

Technical Specifications - 1756 SERCOS Interface Modules

Attribute	1756-M03SE	1756-M08SE	1756-M16SE	1756-M08SEG
Number of drives, max	3	8	16	8 (Extended Pack Profile compliant)
SERCOS data rate	4 Mbps 8 Mbps			
SERCOS cycle time @ 4 Mbps	0.5 ms, up to 2 drives(1) 1 ms, up to 4 drives 2 ms, up to 8 drives			
SERCOS cycle time @ 8 Mbps	0.5 ms, up to 4 drives(1) 1 ms, up to 8 drives 2 ms, up to 16 drives			
Drive control modes	Position, velocity, and torque			Position only
Current draw @ 5.1V DC	760 mA			
Current draw @ 24V DC	2.5 mA			
Power dissipation	5.0 W			
Slot width	1			
Module location	Chassis-based, any slot			
Chassis	1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17			
Power supply, standard	1756-PA72/C, 1756-PA75/B, 1756-PB72/C, 1756-PB75/B, 1756-PC75/B, 1756-PH75/B			
Power supply, redundant	1756-PA75R, 1756-PB75R, 1756-PSCA2			
Plastic fiber-optic cables	2090-SCEP*xx*-0 non-jacketed, chlorinated polyethylene 2090-SCVP*xx*-0 standard jacket, polyvinyl chloride 2090-SCNP*xx*-0 nylon jacket			
Glass fiber-optic cables	2090-SCVG*xx*-0 standard jacket, polyvinyl chloride			
Enclosure type rating	None (open-style)			

(1) Kinetix 6000 drives let you use a 0.5 ms cycle time.

Environmental Specifications - 1756 SERCOS Interface Modules

Attribute	1756-M03SE, 1756-M08SE, 1756-M16SE, 1756-M08SEG
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0…60 °C (32…140 °F)
Temperature, storage IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40…85 °C (-40…185 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Nonoperating Damp Heat)	5…95% noncondensing