

ControlLogix Integrated Motion

The Logix architecture supports motion control components that work in a wide variety of machine architectures:

- Integrated Motion on the EtherNet/IP network supports a connection to Ethernet drives.
- The Kinetix integrated-motion solution uses a SERCOS or EtherNet/IP interface to perform multi-axis, synchronized motion.
- Logix integrated motion supports the analog family of servo modules for controlling drives/actuators.
- Networked motion provides connection via the DeviceNet network to one axis drive to perform point-to-point indexing.

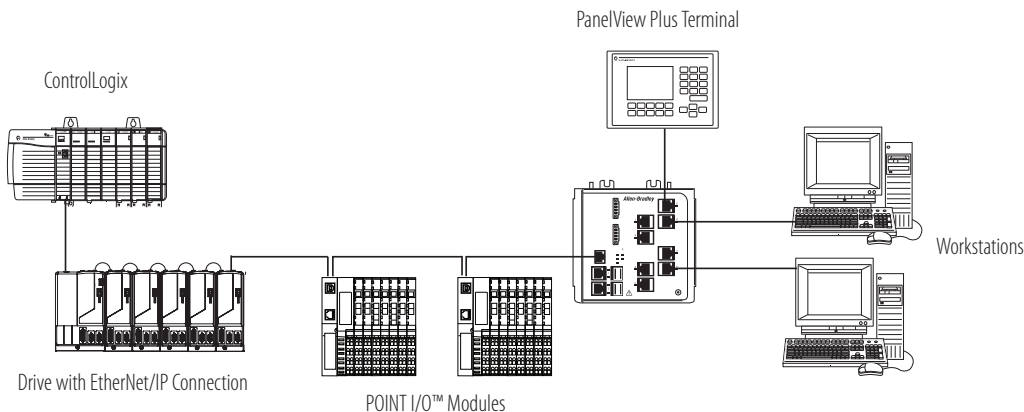
For detailed specifications on motion interface modules, see the 1756 ControlLogix Integrated Motion Specifications Technical Data, publication [1756-TD004](#).

For more information, see these publications:

- Motion Analyzer CD to size your motion application and to make final component selection
Download the software from <http://www.ab.com/motion/software/analyzer.html>
- Kinetix Motion Control Selection Guide, publication [GMC-SG001](#), to verify drive, motor, and accessory specifications

Integrated Motion on an EtherNet/IP Network

Product	Consideration
Drive that supports EtherNet/IP connections	Unlimited velocity, torque, and VHz configured drives: <ul style="list-style-type: none">• Kinetix 6500 drives• Kinetix 5500 drives• Kinetix 350 drives• PowerFlex 755 drives
ControlLogix controller	As many as 100 drives per controller
ControlLogix EtherNet/IP communication module	<ul style="list-style-type: none">• 1 . . . 8 position loop axes configured with the 1756-EN2T or 1756-EN2TR modules• 1 . . . 128 position loop axes configured with the 1756-EN3TR module

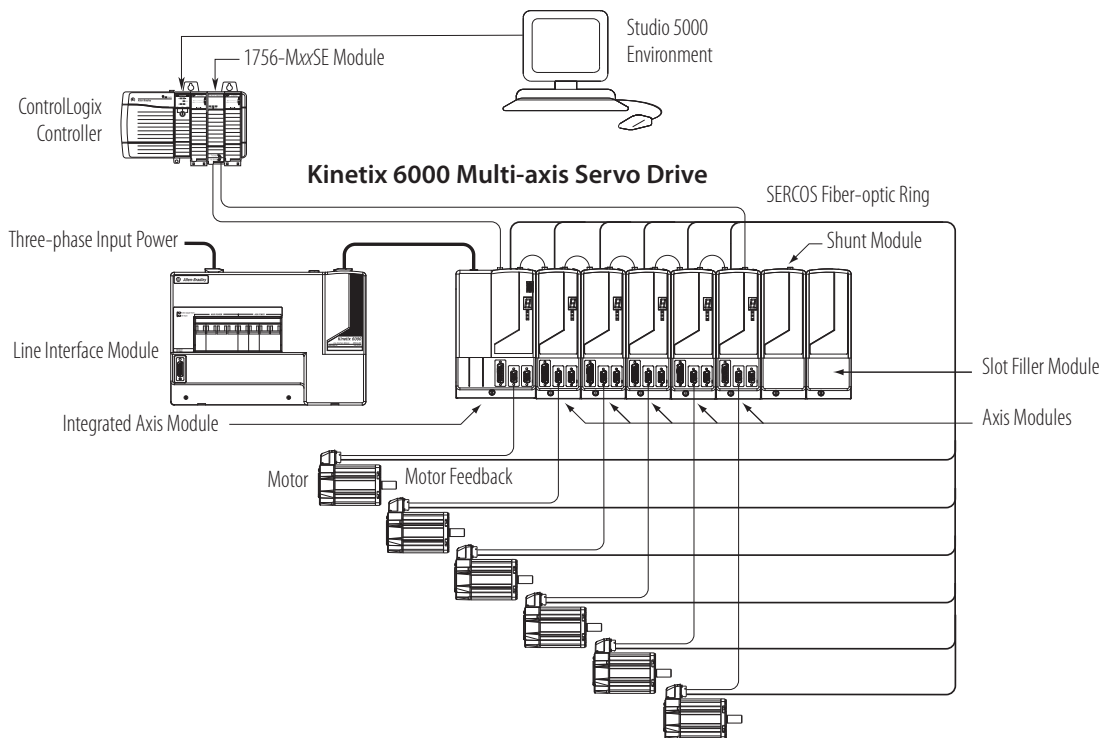


SERCOS Interface Modules

Cat. No.	Description	Number of Axes
1756-M16SE	Rockwell Automation® SERCOS interface modules	16
1756-M08SE		8
1756-M03SE		3
1756-M08SEG	SERCOS interface drives that are Extended Pack Profile compliant	8

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 Ultra™3000 SERCOS servo drive



Analog Motion Interface Modules

Cat. No.	Description	Number of Axes
1756-M02AE	Analog servo interface drives with quadrature feedback	2
1756-HYD02	Analog, hydraulic servo interface drives LDT feedback	2
1756-M02AS	Analog servo interface drives with SSI feedback	2

Redundant Power Supplies

A redundant power supply system provides extra uptime protection for chassis that are used in critical applications. The redundant power supplies funnel power through the chassis adapter to the ControlLogix series B chassis backplane. To build a redundant power supply system, you need the following components.

Cat. No.	Amount	Description	Voltage Category	Operating Voltage Range	Chassis
1756-PAR2	Kit	Bundled system contains: <ul style="list-style-type: none">– Two 1756-PA75R power supplies– Two 1756-CPR2 cables– One 1756-PSCA2 chassis adapter	110V AC	N/A	Standard, series B
1756-PBR2	Kit	Bundled system contains: <ul style="list-style-type: none">– Two 1756-PB75R power supplies– Two 1756-CPR2 cables– One 1756-PSCA2 chassis adapter	24V DC	N/A	
1756-PA75R/A or 1756-PB75R/A	2	Redundant AC power supply	120V/220V AC	85...256V AC	
		Redundant DC power supply	24V DC	19.2...32V DC	
1756-CPR2	2	Redundant power supply cable (Length = 0.91 m [3 ft])	N/A	N/A	
1756-PSCA2	1	Redundant power supply chassis adapter			
N/A (user-supplied)	2	Annunciator wiring ⁽¹⁾ (Maximum length = 10 m [32.8 ft])			

(1) Optional user-supplied annunciator wiring can be connected to the solid-state relay for status and troubleshooting purposes.

Visualization Products

Visualization products, together with Logix for control and NetLinx architecture for communication, compose the Rockwell Automation Integrated Architecture™ strategy. The visualization strategy combines Rockwell Automation expertise in Allen-Bradley® electronic operator interface and industrialized personal computer hardware with Rockwell Software® supervisory control software. Current visualization products include the following:

- FactoryTalk View software
- PanelView Plus operator interface
- PanelView Plus CE operator interface
- Industrial computers and monitors

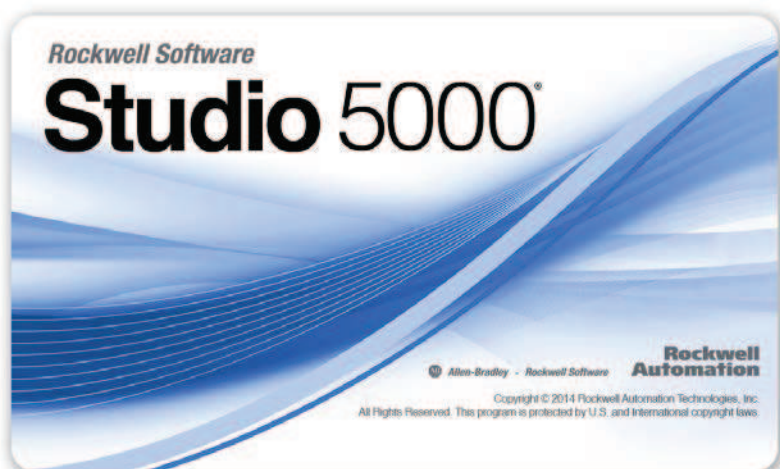
For more information, see the Operator Interface catalog pages at <http://www.ab.com/en/epub/catalogs/12762/2181376/1239781/>.

Programming Software

Your selection of modules and network configuration determines what software packages you require to configure and program your system.

Studio 5000 Environment

The Studio 5000 Automation Engineering & Design Environment™ combines engineering and design elements into a common environment. The first element in the Studio 5000® environment is the Studio 5000 Logix Designer™ application. The Logix Designer application is the rebranding of RSLogix™ 5000 software and continues to be the product to program Logix5000™ controllers for discrete, process, batch, motion, safety, and drive-based solutions.



The Studio 5000 environment is the foundation for the future of Rockwell Automation® engineering design tools and capabilities. This environment is the one place for design engineers to develop the elements of their control system.

1756 System Software

If you have	You need	Order
1756 ControlLogix controller	Studio 5000 Logix Designer application	9324 series ⁽¹⁾
1756 SERCOS or analog motion module		
1756-CN2, 1756-CN2R 1756-CN2RXT 1756-CNB, 1756-CNBR ControlNet communication module	RSNetWorx™ for ControlNet software	9324 series ⁽¹⁾ (RSNetWorx option) or 9357-CNETL3 (RSNetWorx for ControlNet)
1756-DNB DeviceNet communication module	RSNetWorx for DeviceNet software	9324 series ⁽¹⁾ (RSNetWorx option) or 9357-DNETL3 (RSNetWorx for DeviceNet)
1756-EN2F, 1756-EN2T 1756-EN2TX 1756-EN2TR, 1756-EN3TR 1756-ENBT, 1756-EWEB EtherNet/IP communication module (set the IP address)	RSLink software or BOOTP/DHCP server utility to set IP addresses Optional RSNetWorx for EtherNet/IP software	9324 series ⁽¹⁾ Optional 9357-ENETL3 (RSNetWorx for EtherNet/IP)
1756-DHRIO, 1756-DHRIOXT communication module 1756-DH485 communication module	RSLink software	9324 series ⁽¹⁾
1757-FFLD2, 1757-FFLD4 1757-FFLDC2, 1757-FFLDC4 Foundation Fieldbus linking device	RSFieldbus configuration software	9308 series
Communication card in a workstation	RSLink software	9324 series ⁽¹⁾

(1) All 9324 packages include RSLink Classic Light.