

Integrated Motion on EtherNet/IP Allows you to Use One Network to Integrate High Performance Servo & AC Drive Control, Distribute I/O, HMI, and other EtherNet/IP Devices, for Standard and Safety Applications

ControlLogix/1756-ENXT(R) Capacity

- 1-8 position configured drives with 1756-EN2T(R)
- 1-255 position configured drives with 1756-EN3TR (with multiple controllers)
- Unlimited velocity, torque, and Vhz configured drives
- Logix controller drive limit of 100 drives

ControlLogix/1756-ENXT(R) Configuration

- USB Port on 1756-EN2T(R)/EN3TR provides easy access to module and networks for configuration, and troubleshooting

ControlLogix/1756-ENXT(R) Performance

- 8 drives/ms using either a 1756-EN2T(R) or 1756-EN3TR module

PanelView Plus 7 Capacity

- 25 Displays
- 200 Alarm Messages

PanelView Plus 7 Configuration

- Premier Integration with Logix Controllers
- Logix Tag Reuse, Global Objects, Faceplates and AOIs
- Single Development Environment

PanelView Plus 7 Performance

- 3.5, 5.5, and 10.4 inch Display Sizes
- Grayscale or Color Option
- Keypad/Touch Screen Options

Can use:

- 1756-EN2T for Linear application
- 1756-EN2TR required for DLR application only

Integrated Motion on EtherNet/IP Configuration

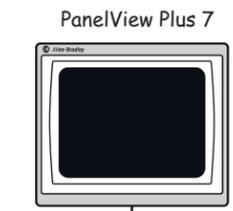
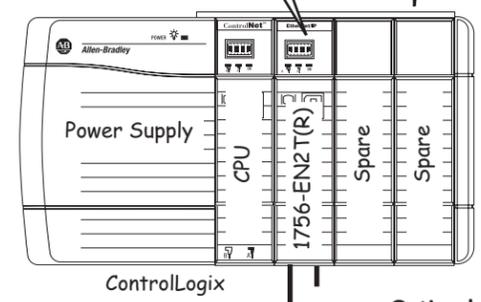
- Mix and match Motion, Standard I/O, and Safety devices on one network.
- Either Star, Linear, or Device Level Ring (DLR) topologies can be used (or a mix of these topologies)
- In this application, an external switch is not required due to the 2 port embedded linear/ring technology in the products

Optional Device Level Ring (DLR)

Single fault tolerant network provides resiliency
Device level ring requires no additional hardware to implement

Optional 1783-ETAP

Only needed with the Device Level Ring (DLR)
(The 1783-ETAP can be used to connect devices that do not currently have the 2 port embedded linear/ring technology.)



1783-ETAP

PowerFlex 527 Capacity

- 5 to 30 HP, 4 to 22KW
- 100 to 600V single or 3-phase
- 24vDC digital I/O
- Analog I/O
- Embedded 2 Port EtherNet/IP supports Linear/Ring topologies

PowerFlex 527 Configuration

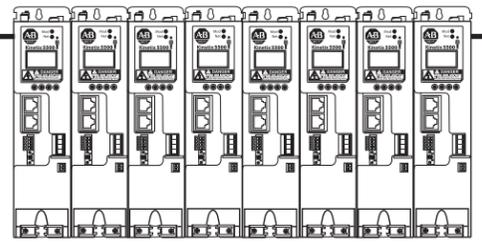
- Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning and drive diagnostic & maintenance tools.
- Integrated Safe Torque Off (SIL3/PLe) hardwired and networked

PowerFlex 527 Performance

- Ideal complement to machines already using Kinetix servo drives
- Designed for applications requiring speed control for induction motors



PowerFlex 527



Kinetix 5500

Kinetix 5500 Capacity

- Scalable Single/Multi Axis Design
- 195-528V single phase or 3-phase
- 600W - 14.6kW
- Embedded 2 Port EtherNet/IP supports Linear/Ring topologies

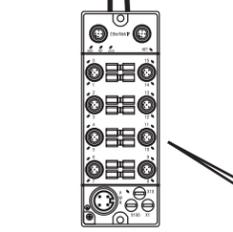
Kinetix 5500 Configuration

- Full integrated motion support for Kinetix350, Kinetix 5500, Kinetix 5700, and PowerFlex 755 using EtherNet/IP
- Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and drive diagnostic & maintenance tools.
- Integrated Safe Torque Off SIL2, PLd (ISO 13849)

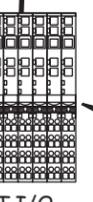
Kinetix 5500 Performance

- High speed registration input on Kinetix drive can trigger a motion task in Studio 5000 Logix Designer for faster event task performance

Optional I/O



ArmorBlock SOE I/O Module Capacity



POINT I/O

POINT I/O Capacity

- The maximum is 63 POINT I/O modules per adapter
- 1734-AENTR EtherNet/IP adapter supports 2 port embedded linear/ring topology

ArmorBlock SOE I/O Module Capacity

- Sequence of Events (SOE) module
- Time stamp data can be used for motion soft registration support
- Includes 100us transition time stamp

Bill of Material

Qty	Catalog #	Description
System: Controller Hardware		
1	1756-L7X	CONTROLLOGIX L7X PROCESSOR
1	1756-A4	7 SLOT CONTROLLOGIX CHASSIS
1	1756-PA72	85-265 VAC POWER SUPPLY (5V @ 10 AMP)

System: Communication Hardware		
1	1756-EN2T(R)	1 or 2-PORT CLX HI-CAP ENET/IP

Motion Hardware		
8	2198-H003-ERS	KINETIX 5500 2.5Amps (RMS)
8	VPL-A1002A-CJ12AS	KINETIX VP LOW INERTIA MOTOR, IEC 100mm FRAME SIZE, 1500 RPM RATED SPEED

Single-Cable Technology - One cable between VPL Motor and Kinetix 5500 drive yields simplification and reduces costs. One cable for feedback, motor brake, and motor power.

1	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
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7	1585J-M8CBJM-0M3	SHIELDED ETHERNET CABLES FOR CIP DRIVES, .3 METERS
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Note: Catalog numbers consist of characters, each of which identifies a specific version or option for that component. Reference Publication GMC-SG001-EN-E Kinetix Motion Control Selection Guide for additional information

Drive Hardware		
1	25C-D2P3N114	POWERFLEX 527 AC DRIVE WITH EMBEDDED DUAL PORT ETHERNET/IP AND INTEGRATED SAFETY, 1HP, FRAME A

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, enclosure type. Please refer to the PowerFlex Selection Guide (PFLEX-SG002-EN-P) for additional details on selecting the right drive for your application.

HMI Hardware		
1	2711P-B7C22A9P	PANELVIEW PLUS 7 5.5" TFT COLOR TOUCH TERMINAL

Distributed I/O Hardware - POINT I/O		
1	1734-AENT	1734 ETHERNET/IP ADAPTER
1	1734-FPD	FIELD POTENTIAL DISTRIBUTOR
1	1734-IA2	120V AC 2 CHANNEL INPUT MODULE
1	1734-OA2	120/230V AC 2 CHANNEL OUTPUT MODULE
4	1734-TB	MODULE BASE W/ REMOVABLE IEC SCREW TERMINALS
1	1794-PS13	85-264V AC TO 24V DC 1.3A POWER SUPPLY

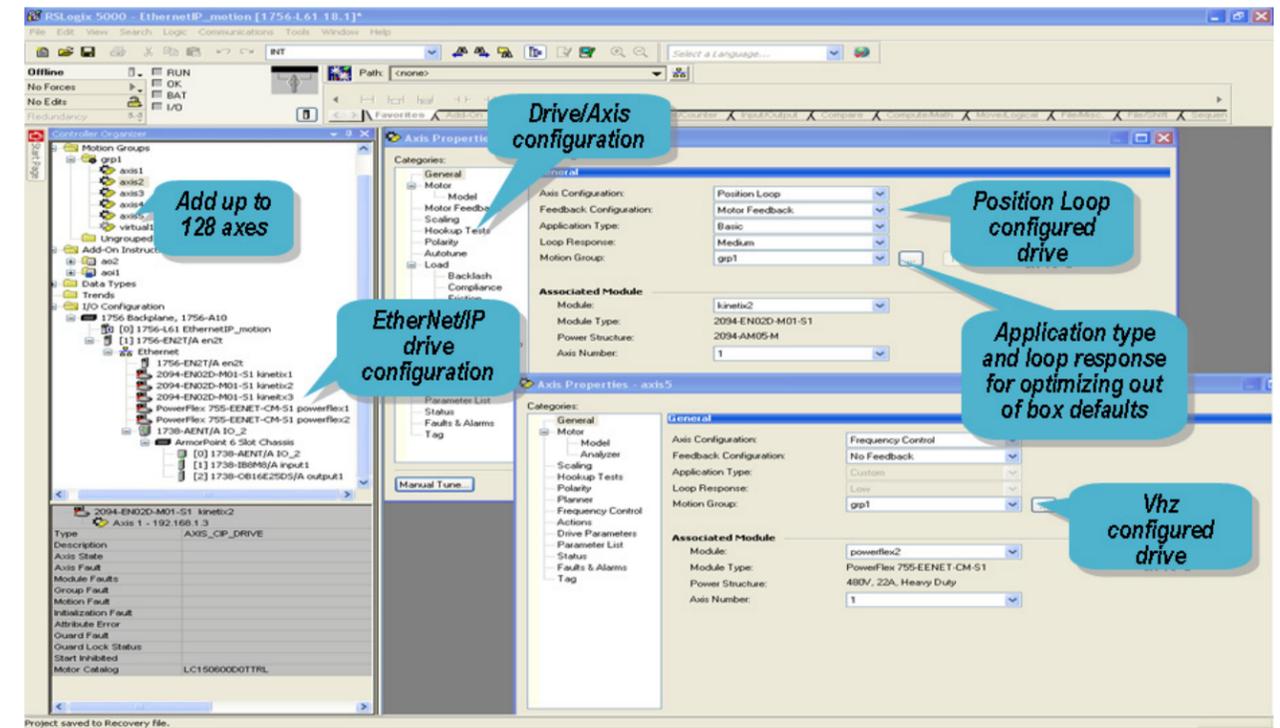
Distributed I/O Hardware - OTHER		
1	1732E-IB16M12SOEDR	ARMORBLOCK SOE MODULE

Recommended Software		
1	9324-RLD300yyE	STUDIO 5000 LOGIX DESIGNER STANDARD EDITION

Note: ControlLogix Controllers can be programmed using Studio 5000 Logix Designer Standard, Full, or Pro.

1	9701-VWSTENE	FACTORYTALK VIEW STUDIO FOR FACTORYTALK VIEW
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Now you can use the same Studio 5000 Logix Designer software tools and motion programming instructions for Kinetix 6500, 5500, PowerFlex 527 and PowerFlex 755 position and velocity applications, saving time and effort in programming and commissioning your system.



About the Products

Logix Controllers

- A common set of controls, networks and programming software available in multiple hardware platforms
- Multiple control disciplines in a single controller - sequential / motion / drives / process
- Tag-based architecture instead of addresses, provides automatic documentation native in the controller

Kinetix Servos

- Scalable solution for applications from 100W to 112KW
- Integrated platform to simplify machine design and commissioning
- Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity

PowerFlex Drives

- Serves applications ranging from 0.2 kW (0.25 hp) to 6,770 kW (9,000 hp)
- Hundreds of pieces of status and diagnostic information are shared with Logix controllers directly

PanelView Plus 7

- Includes sizes from 4...15 with wide screen options
- Uses Windows CE 6.0 standard features
- Offers Ethernet communications for integration from the machine to the enterprise
- Includes increased memory of 512 MB flash memory/512 MB RAM which provides greater flexibility in applications
- Monitors applications from a remote location with VNC connectivity

POINT I/O

- Available in IP-20 or IP-67 styles
- Densities from 2-8 points per module
- Supports EtherNet/IP, ControlNet, DeviceNet and 3rd party networks

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative.

- www.ab.com
- Publication Library
- My Support
- A - Z Product Directory
- samplecode.rockwellautomation.com

About this Configuration

This Integrated Architecture system demonstrates the power of the Integrated Motion on EtherNet/IP System. This system utilizes standard EtherNet/IP technology to allow you to easily mix and match high speed Motion control, I/O control, drive control, and HMI on a single EtherNet/IP network for both standard and safety applications.

A key advantage of this architecture is the ability to use Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and motion tools for the Kinetix 6500, 5500, PowerFlex 527 and PowerFlex 755 family of products.

Integrated Motion on EtherNet/IP Allows you to Use One Network to Integrate High Performance Servo & AC Drive Control, Distribute I/O, HMI, and other EtherNet/IP Devices, for Standard and Safety Applications

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- ControlLogix/1756-ENXT(R) Performance**
- 8 drives/ms using either a 1756-EN2T(R) or 1756-EN3T module

- * Optional Modules**
- GuardLogix only required for safety applications

- Integrated Motion on EtherNet/IP Configuration**
- Mix and match Motion, Standard I/O, and Safety devices on one network.
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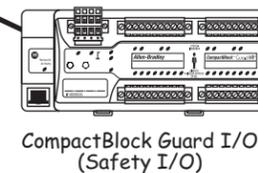
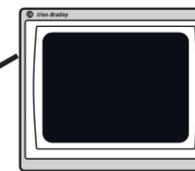
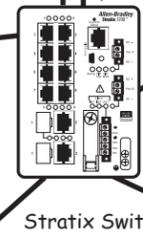
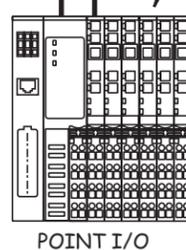
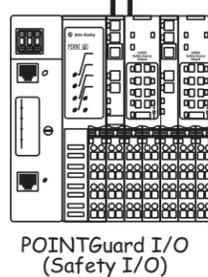
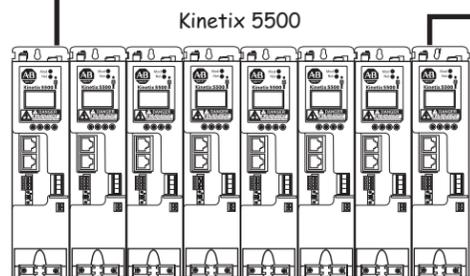
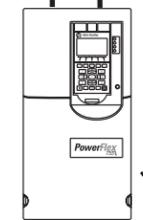
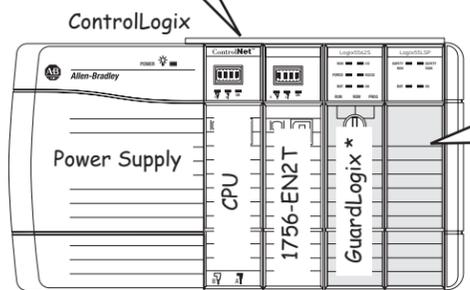
- ArmorBlock SOE I/O Module Capacity**
- Sequence of Events (SOE) module
 - Time stamp data can be used for motion soft registration support
 - Includes 100us transition time stamp

- POINT I/O Capacity**
- The maximum is 63 POINT I/O modules per adapter
 - 1734-AENTR EtherNet/IP adapter utilizes embedded switch technology to support linear or ring topologies
 - You can mix Safety and Standard Point I/O modules in the same rack

- Switch Configurations Options**
- Can use embedded, unmanaged, or managed switches from any switch manufacturer.
 - Recommended Rockwell Automation switches available include:
 - Stratix 5400, 5700, 8000 and 8300 Managed Switches
 - Stratix 2000 unmanaged switch
 - 2 port embedded linear/ring technology - available in:
 - 1756-EN2TR ControlLogix module
 - 1756-EN3TR ControlLogix module
 - 1734-AENTR Point I/O Adapter
 - ArmorBlock SOE I/O module
 - Kinetix 6500 and 5500
 - 1783-ETAP Standalone 3 port tap allows any single port device to participate

- Switch Performance**
- In many applications an external switch is not required due to the high precision 2 port embedded linear/ring technology included in the products
 - In topologies where an external switch is used (e.g. Star), either a managed or unmanaged switch can be used, depending on your application requirements

- Safety Capacity**
- Distributed Safety functionality across the network supported in such products as CompactBlock Guard I/O, POINT Guard I/O, Kinetix 6500, 5500, PowerFlex 527 and PowerFlex 755



- PowerFlex 755 VFD Capacity**
- 1-650Hp
 - .75-400kW
 - 400/480VAC & 540/650VDC
 - Embedded EtherNet/IP

- PowerFlex 755 VFD Configuration**
- Full integrated motion support for PowerFlex 755/Kinetix 350, 5500, 5700, 6500 using EtherNet/IP
 - Can configure for position, velocity, torque, or V/Hz control
 - Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and motion tools for the PowerFlex 755/Kinetix 350, 5500, 5700, 6500
 - Use same Motion instructions for Kinetix 350, 5500, 5700, 6500, PowerFlex 527, PowerFlex 755*
 - Safety Options:
 - SIL 3, Cat 3, PLc Safe Torque Off
 - SIL 3, Cat 4, PLc Safe Speed

- PowerFlex 755 VFD Performance**
- Speed, Position, and Torque Control

- Kinetix 5500 Capacity**
- Scalable Single/Multi Axis Design
 - 195-528V single phase or 3-phase
 - 600W - 14.6kW
 - Embedded 2 Port EtherNet/IP supports Linear/Ring topologies

- Kinetix 5500 Configuration**
- Full integrated motion support for Kinetix 5500, Kinetix 6500, PowerFlex 527 and PowerFlex 755 using EtherNet/IP
 - Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and drive diagnostic & maintenance tools.
 - Integrated Safe Torque Off SIL2, PLd (ISO 13849)

- Kinetix 5500 Performance**
- High speed registration input on Kinetix drive can trigger a motion task in Studio 5000 Logix Designer for faster event task performance

Plant MRP System, Database, Order Tracking Systems

Configuration
EtherNet/IP, DeviceNet and RA Controllers enable business systems to plant floor communications, providing the ability to share thousands of pieces of information with no programming required

Bill of Material

Qty	Catalog #	Description
System: Controller Hardware		
1	1756-L7X	CONTROLLOGIX L7X PROCESSOR
1	1756-A7	7 SLOT CONTROLLOGIX CHASSIS
1	1756-PA72	85-265 VAC POWER SUPPLY (5V @ 10 AMP)
System: Safety Controller Hardware (Optional)		
1	1756-L7XS	GUARDLOGIX L7XS SAFETY PRIMARY PROCESSOR
1	1756-L7SP	GUARDLOGIX SAFETY PARTNER
System: Communication Hardware		
1	1756-EN2T	1-PORT CLX HI-CAP ENET/IP
1	1783-BMS10CGP	STRATIX 5700 SWITCH with CIP SYNC, 10 PORTS
Motion Hardware		
8	2198-H003-ERS	KINETIX 5500 2.5Amps (RMS)
8	VPL-A1002A-CJ12A5	KINETIX VP LOW INERTIA MOTOR, IEC 100mm FRAME SIZE, 1500 RPM RATED SPEED
Single-Cable Technology - One cable between VPL Motor and Kinetix 5500 drive yields simplification and reduces costs. One cable for feedback, motor brake, and motor power.		
1	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
7	1585J-M8CBJM-OM3	SHIELDED ETHERNET CABLES FOR CIP DRIVES, .3 METERS
Note: Catalog numbers consist of characters, each of which identifies a specific version or option for that component. Reference Publication GMC-SG001-EN-E Kinetix Motion Control Selection Guide for additional information		
Drive Hardware		
1	25C-D2P3N104	POWERFLEX 527 DRIVE, 1 HP FRAME A
1	20G...	POWERFLEX 755 DRIVE
1	20-750-ENTR	POWERFLEX 750 SERIES DUAL PORT EIP MODULE

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, enclosure type. Please refer to the PowerFlex Selection Guide (PFLEX-SG002-EN-P) for additional details on selecting the right drive for your application.

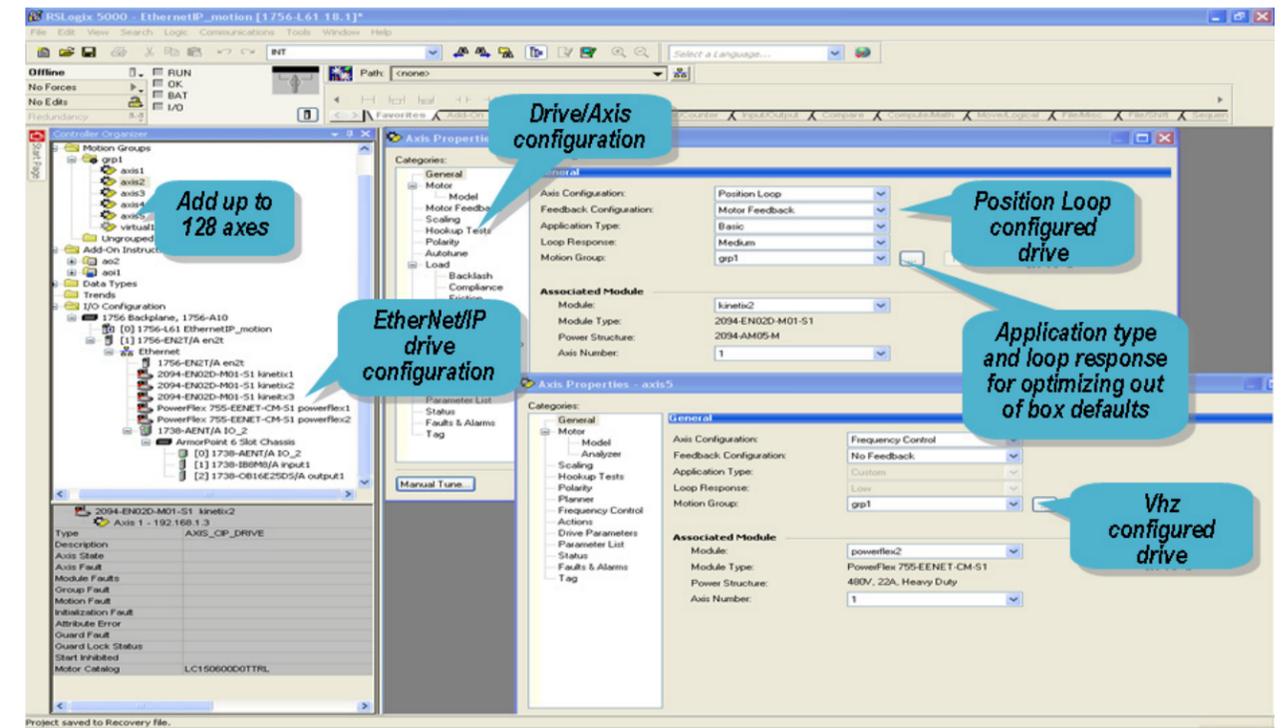
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HMI Hardware		
1	2711P-B7C22A9P	PANELVIEW PLUS 7 5.5" TFT COLOR TOUCH TERMINAL
Distributed I/O Hardware - POINT I/O		
1	1734-AENT	1734 ETHERNET/IP ADAPTER
1	1734-FPD	FIELD POTENTIAL DISTRIBUTOR
1	1734-IA2	120V AC 2 CHANNEL INPUT MODULE
1	1734-OA2	120/230V AC 2 CHANNEL OUTPUT MODULE
1	1734-IB8S	8 CHANNEL SAFETY SINKING INPUT MODULE (Safety Option)
1	1734-OB8S	24VDC OUTPUT POINT GUARD SAFETY MODULE (Safety Option)
4	134-TB	MODULE BASE W/ REMOVABLE IEC SCREW TERMINALS
1	1794-PS13	85-264V AC TO 24V DC 1.3A POWER SUPPLY
Distributed I/O Hardware - OTHER		
1	1791ES-IB8XOBV4	24VDC INPUT/OUTPUT GUARDBLOCK SAFETY MODULE (Safety Option)
1	1732E-IB16M12SOEDR	ARMORBLOCK SOE MODULE
Recommended Software		
1	9324-RLD600yyE	STUDIO 5000 LOGIX DESIGNER STANDARD EDITION (Includes GuardLogix Support)
Note: ControlLogix Controllers can be programmed using RSLogix 5000 Standard, Full, or Pro.		
1	9701-VWSTENE	FACTORYTALK VIEW STUDIO FOR FACTORYTALK VIEW

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POINT I/O

- Available in IP-20 or IP-67 styles
- Densities from 2-8 points per module
- Supports EtherNet/IP, ControlNet, DeviceNet and 3rd party networks

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative.

- www.ab.com
- Publication Library
- My Support
- A - Z Product Directory
- samplecode.rockwellautomation.com

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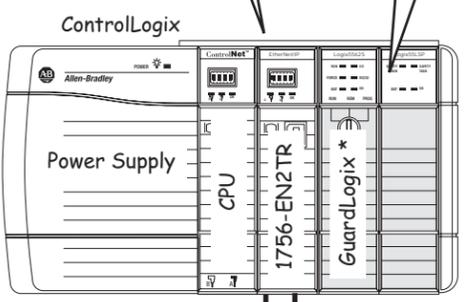
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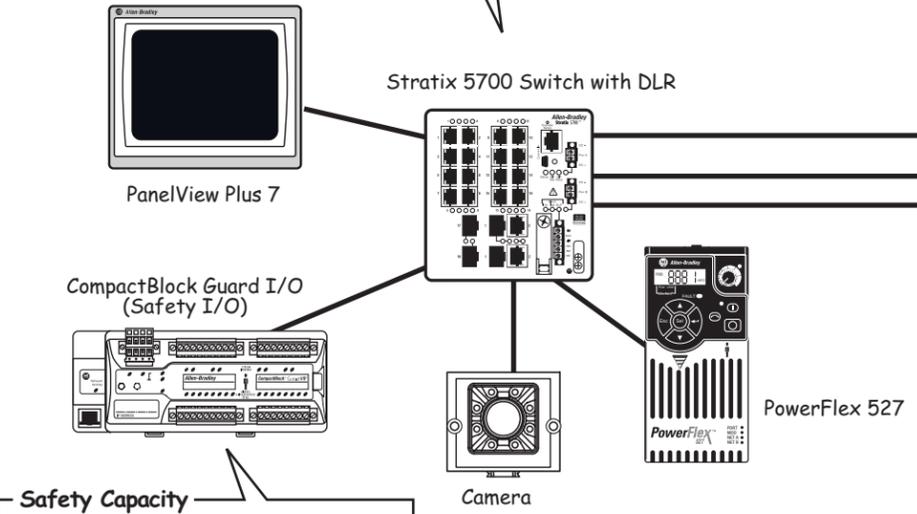
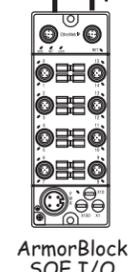
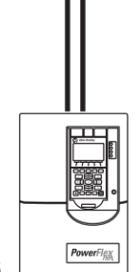
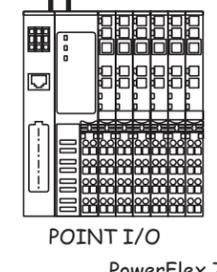
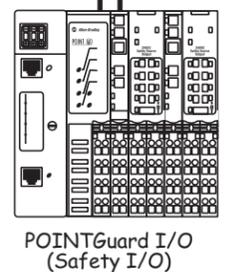
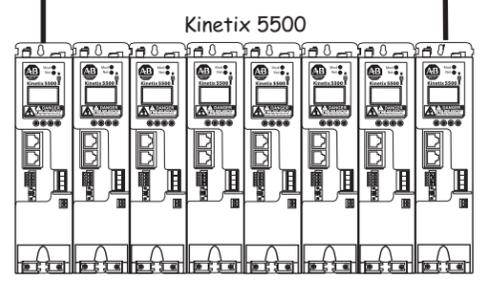
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Device Level Ring (DLR)



Safety Capacity
Distributed Safety functionality across the network supported in such products as CompactBlock Guard I/O, POINT Guard I/O, Kinetix 6500, 5500, PowerFlex 527 and PowerFlex 755

Kinetix 5500 Configuration

- Full integrated motion support for Kinetix 5500, Kinetix 6500, PowerFlex 527 and PowerFlex 755 using EtherNet/IP
- Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and drive diagnostic & maintenance tools.
- Integrated Safe Torque Off SIL2, PLd (ISO 13849)

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- Scalable Single/Multi Axis Design
- 195-528V single phase or 3-phase
- 600W - 14.6kW
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Kinetix 5500 Performance

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PowerFlex 755 VFD Configuration

- Full integrated motion support for PowerFlex 755/Kinetix 6500 using EtherNet/IP
- Can configure for position, velocity, torque, or V/Hz control
- Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and motion tools for the PowerFlex 755*/Kinetix 6500
- Use same Motion instructions for Kinetix 6500, 5500, PowerFlex 527 PowerFlex 755
- Safety Options:
 - SIL 3, Cat 3, PLe Safe Torque Off
 - SIL 3, Cat 4, PLe Safe Speed

PowerFlex 755 VFD Capacity

- 1-650Hp
- .75-400kW
- 400/480VAC & 540/650VDC
- Embedded EtherNet/IP

PowerFlex 755 VFD Performance

- Speed, Position, and Torque Control

Bill of Material

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1	1756-A7	7 SLOT CONTROLLOGIX CHASSIS
1	1756-PA72	85-265 VAC POWER SUPPLY (5V @ 10 AMP)

System: Safety Controller Hardware (Optional)		
1	1756-L7XS	GUARDLOGIX L7XS SAFETY PRIMARY PROCESSOR
1	1756-L7SP	GUARDLOGIX SAFETY PARTNER

System: Communication Hardware		
1	1756-EN2TR	2-PORT CLX HI-CAP ENET/IP
1	1783-BMS10CGP	STRATIX 5700 MANAGED SWITCH WITH DLR

Motion Hardware		
8	2198-H003-ERS	KINETIX 5500 2.5Amps (RMS)
8	VPL-A1002A-CJ12AS	KINETIX VP LOW INERTIA MOTOR, IEC 100mm FRAME SIZE, 1500 RPM RATED SPEED

Single-Cable Technology - One cable between VPL Motor and Kinetix 5500 drive yields simplification and reduces costs. One cable for feedback, motor brake, and motor power.

1	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
7	1585J-M8CBJM-OM3	SHIELDED ETHERNET CABLES FOR CIP DRIVES, .3 METERS

Note: Catalog numbers consist of characters, each of which identifies a specific version or option for that component. Reference Publication GMC-SG001-EN-E Kinetix Motion Control Selection Guide for additional information

Drive Hardware		
1	25C-D2P3N104	POWERFLEX 527 DRIVE, 1 HP FRAME A
1	20G...	POWERFLEX 755 DRIVE
1	20-750-ENTR	POWERFLEX 750 SERIES DUAL PORT EIP MODULE

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, enclosure type. Please refer to the PowerFlex Selection Guide (PFLEX-SG002-EN-P) for additional details on selecting the right drive for you application.

HMI Hardware		
1	2711P-B7C22A9P	PANELVIEW PLUS 7 5.5" TFT COLOR TOUCH TERMINAL

Distributed I/O Hardware - POINT I/O		
1	1734-AENT	1734 ETHERNET/IP ADAPTER
1	1734-FPD	FIELD POTENTIAL DISTRIBUTOR MODULE
1	1734-IA2	120V AC 2 CHANNEL INPUT MODULE
1	1734-OA2	120/230V AC 2 CHANNEL OUTPUT MODULE
1	1734-IB8S	8 CHANNEL SAFETY SINKING INPUT MODULE (Safety Option)
1	1734-OB8S	24VDC OUTPUT POINT GUARD SAFETY MODULE (Safety Option)
4	1734-TB	MODULE BASE W/ REMOVABLE IEC SCREW TERMINALS
1	1794-PS13	85-264V AC TO 24V DC 1.3A POWER SUPPLY

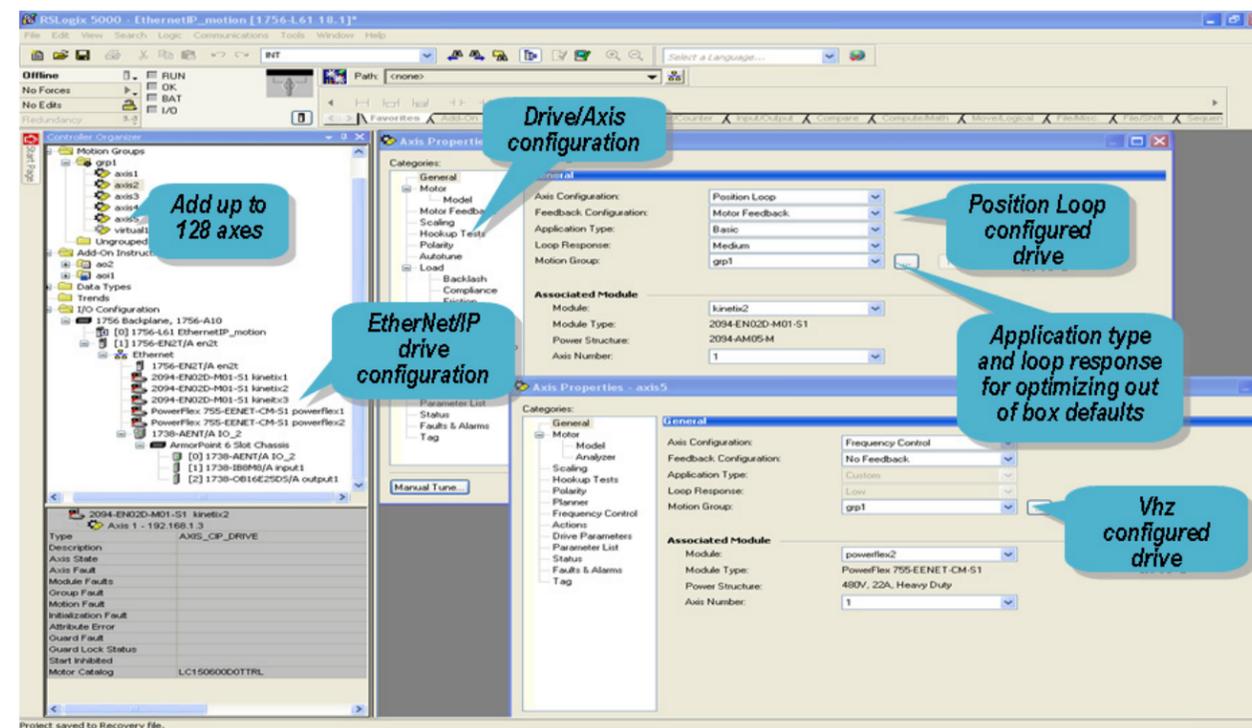
Distributed I/O Hardware - OTHER		
1	1791ES-IB8XOBV4	24VDC INPUT/OUTPUT GUARDBLOCK SAFETY MODULE (Safety Option)
1	1732E-IB16M12SOEDR	ARMORBLOCK SOE MODULE

Recommended Software		
1	9324-RLD600yyE	STUDIO 5000 LOGIX DESIGNER STANDARD EDITION (Includes GuardLogix Support)

Note: ControlLogix Controllers can be programmed using Studio 5000 Logix designer Standard, Full, or Pro.

1	9701-VWSTENE	FACTORYTALK VIEW STUDIO FOR FACTORYTALK VIEW
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Now you can use the same Studio 5000 Logix Designer software tools and motion programming instructions for Kinetix 6500, 5500, PowerFlex 527 and PowerFlex 755 position and velocity applications, saving time and effort in programming and commissioning your system.



About the Products

Logix Controllers

- A common set of controls, networks and programming software available in multiple hardware platforms
- Multiple control disciplines in a single controller - sequential / motion / drives / process
- Tag-based architecture instead of addresses, provides automatic documentation native in the controller

Kinetix Servos

- Scalable solution for applications from 100W to 112KW
- Integrated platform to simplify machine design and commissioning
- Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity

PowerFlex Drives

- Serves applications ranging from 0.2 kW (0.25 hp) to 6,770 kW (9,000 hp)
- Hundreds of pieces of status and diagnostic information are shared with Logix controllers directly

PanelView Plus 7

- Includes sizes from 4...15 with wide screen options
- Uses Windows CE 6.0 standard features
- Offers Ethernet communications for integration from the machine to the enterprise
- Includes increased memory of 512 MB flash memory/512 MB RAM which provides greater flexibility in applications
- Monitors applications from a remote location with VNC connectivity

POINT I/O

- Available in IP-20 or IP-67 styles
- Densities from 2-8 points per module
- Supports EtherNet/IP, ControlNet, DeviceNet and 3rd party networks

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative.

- www.ab.com
- Publication Library
- My Support
- A - Z Product Directory
- samplecode.rockwellautomation.com

About this Configuration

This Integrated Architecture system demonstrates the power of the Integrated Motion on EtherNet/IP System. This system utilizes standard EtherNet/IP technology to allow you to easily mix and match high speed Motion control, I/O control, drive control, and HMI on a single EtherNet/IP network for both standard and safety applications.

A key advantage of this architecture is the ability to use Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and motion tools for the Kinetix 6500, 5500, PowerFlex 527 and PowerFlex 755 family of products.