

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 6 Capacity

- 512 MB Memory
- Hot Swappable Secure Digital (SD) card slot
- 3 USB ports for external devices, programming
- Windows CE 6.0 operating system

PanelView Plus 6 Configuration

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

PanelView Plus 6 Performance

- 1.0 GHz x86 CPU
- 6.5, 10.4, 12.1 and 15 inch Display Sizes
- Color Keypad/Touch Screen Options

Can use:

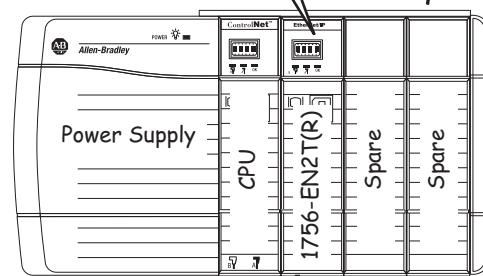
- 1756-EN2T for Linear application
- 1756-EN2TR required for DLR application only

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



ControlLogix

Optional Device Level Ring (DLR)

Optional I/O

Kinetix 5500 Capacity

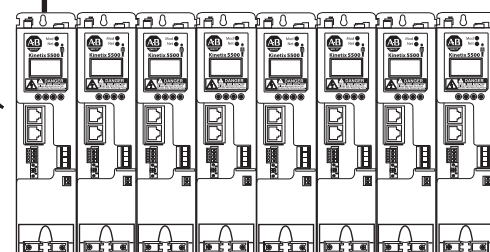
- Scalable Single/Multi Axis Design
- 195-528V single phase or 3-phase
- 600W - 14.6kW
- Embedded 2 Port EtherNet/IP supports Linear/Ring topologies

Kinetix 5500 Configuration

- Full integrated motion support for Kinetix350, Kinetix 5500, Kinetix 6500, 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



Kinetix 5500

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

POINT I/O

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 EtherNet/IP (Linear/Ring with Dual Port Option)

PowerFlex 527

PowerFlex 527 Configuration

- Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning and drive diagnostic & maintenance tools.
- Embedded Safety-Torque Off (SIL3/Plc)

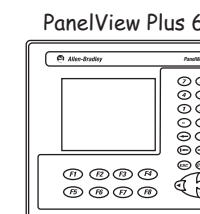
ArmorBlock SOE I/O Module Capacity

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

PowerFlex 527 Performance

- Ideal complement to machines already using Kinetix servo drives
- Designed for the in/out feed conveyors and fan and pump applications requiring induction motor control



PanelView Plus 6

1783-ETAP

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.)

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
7	1585J-M8CBJM-0M3	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-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 you application.

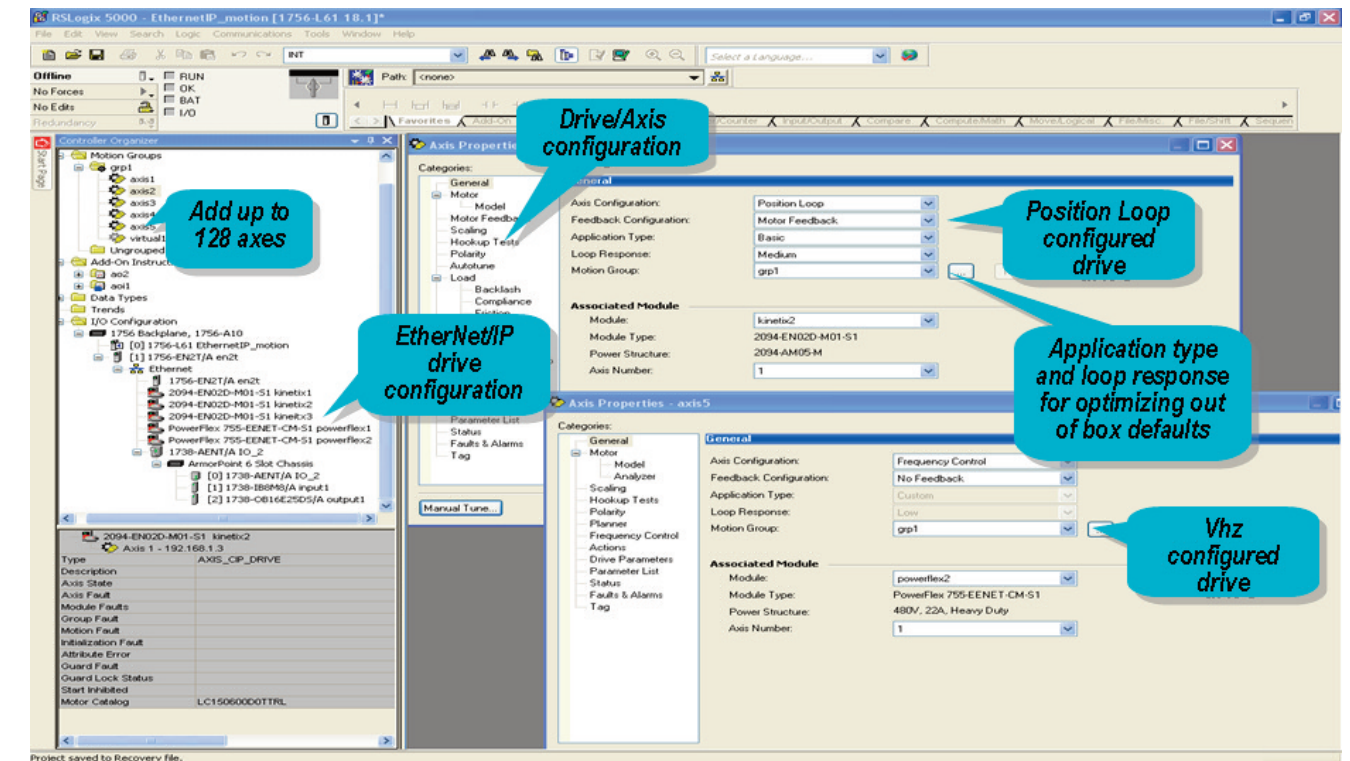
HMI Hardware		
1	2711P-T10C4D9	PANELVIEW PLUS 6 1000 COLOR TOUCH TERMINAL, ETHERNET
Distributed I/O Hardware - POINT I/O		
1	1734-AENT	1734 ETHERNET/IP ADAPTER
1	1734-FPD	FIELD POTENTIAL DISTRIBUTOR
1	1734-IA2	120V AC 2 CHANNEL INPUT MODULE
1	1734-OA2	120/230V AC 2 CHANNEL OUTPUT MODULE
4	1734-TB	MODULE 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-VWSTMENE	RSVIEW STUDIO FOR MACHINE EDITION

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.

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 6

- Reuse tags from Logix controllers by choosing them from a list
- 4"-15" screen sizes available
- Touchscreen, keypad or combination
- Advanced Operator Interface features such as trending, expressions, data logging, animation, diagnostics and alarming

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

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

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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

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

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)

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

Plant MRP
System, Database,
Order Tracking Systems

Configuration

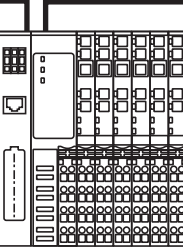
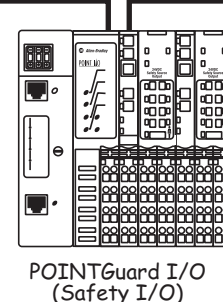
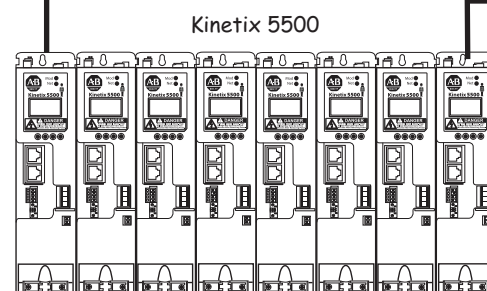
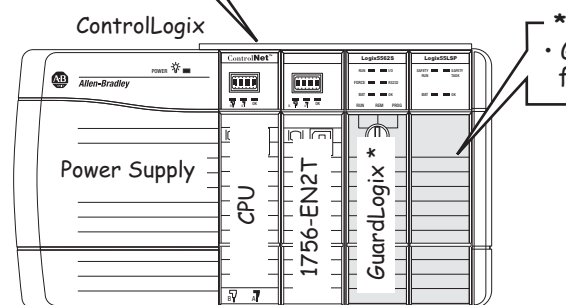
EtherNet/IP, DeviceNet and RA Controllers enable business systems to plant floor communications, providing the ability to share thousands of pieces of information with no programming required

Switch Configurations Options

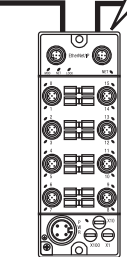
- Can use embedded, unmanaged, or managed switches from any switch manufacturer.
- Recommended Rockwell Automation switches available include:
 - Stratix 5400, 5700, 8000 and 8300 Managed Switches
 - Stratix 2000 unmanaged switch
- 2 port embedded linear/ring technology - available in:
 - 1756-EN2TR 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

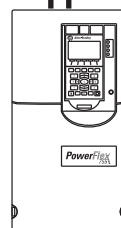
- In many applications an external switch is not required due to the high precision 2 port embedded linear/ring technology included in the products
- In topologies where an external switch is used (e.g. Star), either a managed or unmanaged switch can be used, depending on your application requirements



PowerFlex 755
Architecture
Class Drive



ArmorBlock
SOE I/O
Module
Capacity

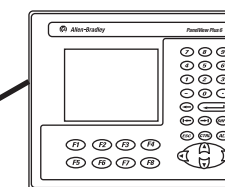


PowerFlex 755 VFD Capacity

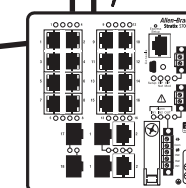
- 1-650Hp
- .75-400kW
- 400/480VAC & 540/650VDC
- Embedded EtherNet/IP

PowerFlex 755 VFD Configuration

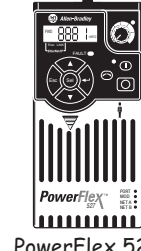
- Full integrated motion support for PowerFlex 755/Kinetix 6500 using EtherNet/IP
- Can configure for position, velocity, torque, or V/Hz control
- Studio 5000 Logix Designer common integrated motion programming, configuration, commissioning, and motion tools for the PowerFlex 755/Kinetix 6500
- Use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



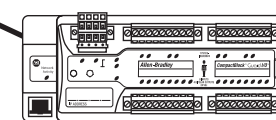
PanelView Plus 6



Stratix Switch



PowerFlex 527



CompactBlock Guard I/O
(Safety I/O)

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 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 Performance

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

Kinetix 5500 Configuration

- Full integrated motion support for Kinetix350, Kinetix 5500, Kinetix 6500, 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)

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-BMS06TL	STRATIX 5700 SWITCH 6 FAST ETHERNET COPPER PORTS
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

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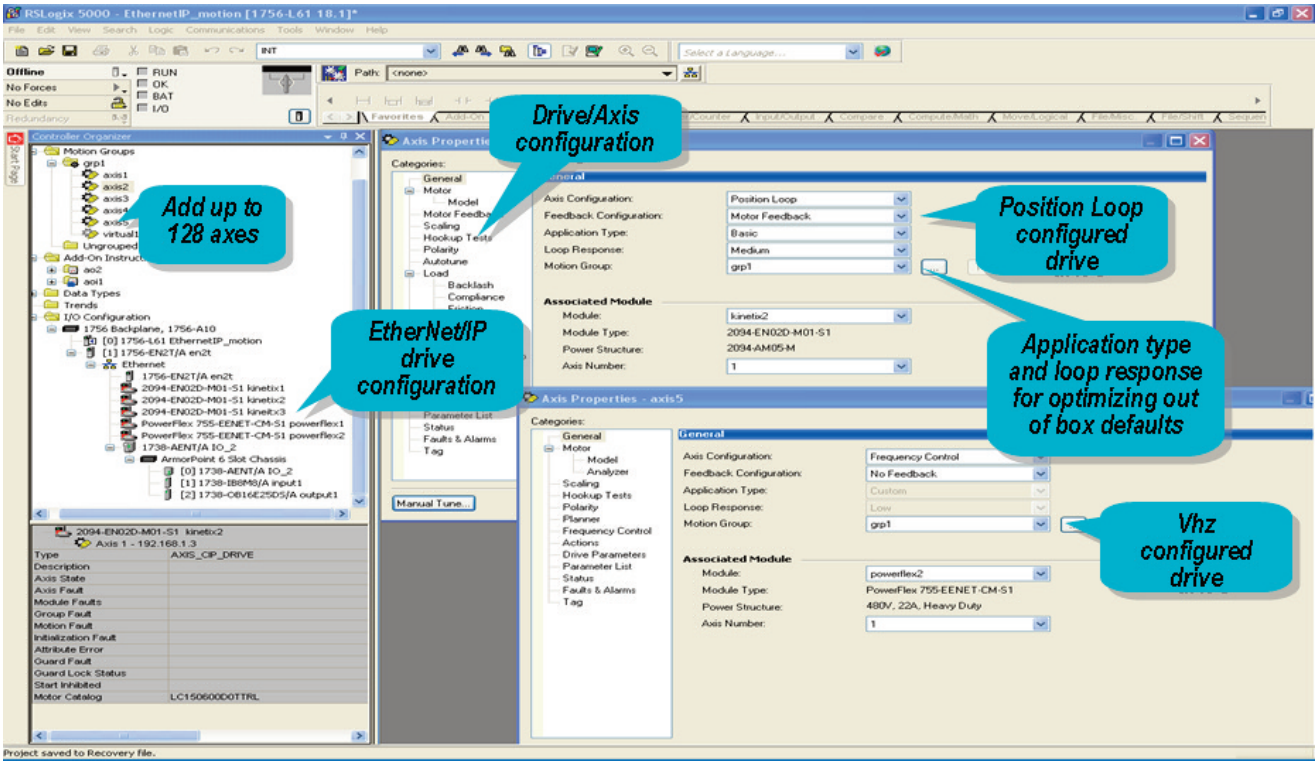
right drive for you application.		
HMI Hardware		
1	2711P-T10C4D9	PANELVIEW PLUS 6 1000 COLOR TOUCH TERMINAL, ETHERNET
Distributed I/O Hardware - POINT I/O		
1	1734-AENT	1734 ETHERNET/IP ADAPTER
1	1734-FPD	FIELD POTENTIAL DISTRIBUTOR
1	1734-IA2	120V AC 2 CHANNEL INPUT MODULE
1	1734-OA2	120/230V AC 2 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	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 Full Edition (Includes GuardLogix Support)
Note: ControlLogix Controllers can be programmed using RSLogix 5000 Standard, Full, or Pro.		
1	9701-VWSTMENE	RSVIEW STUDIO FOR MACHINE EDITION

About this Configuration

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About the Products

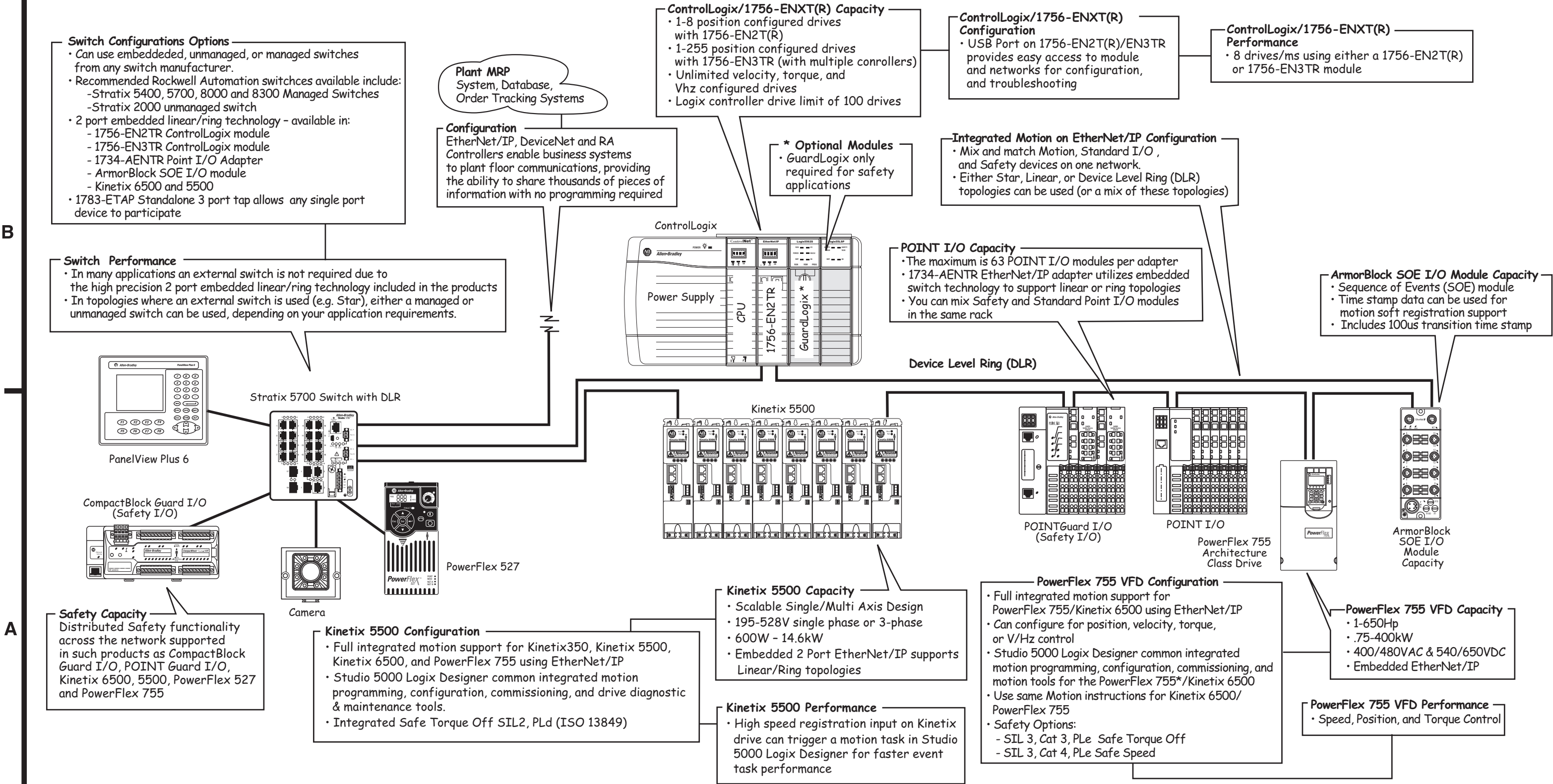
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 - A common set of controls, networks and programming software available in multiple hardware platforms
 - Multiple control disciplines in a single controller - sequential / motion / drives / process
 - Tag-based architecture instead of addresses, 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 6**
 - Reuse tags from Logix controllers by choosing them from a list
 - 4"-15" screen sizes available
 - Touchscreen, keypad or combination
 - Advanced Operator Interface features such as trending, expressions, data logging, animation, diagnostics and alarming
- 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
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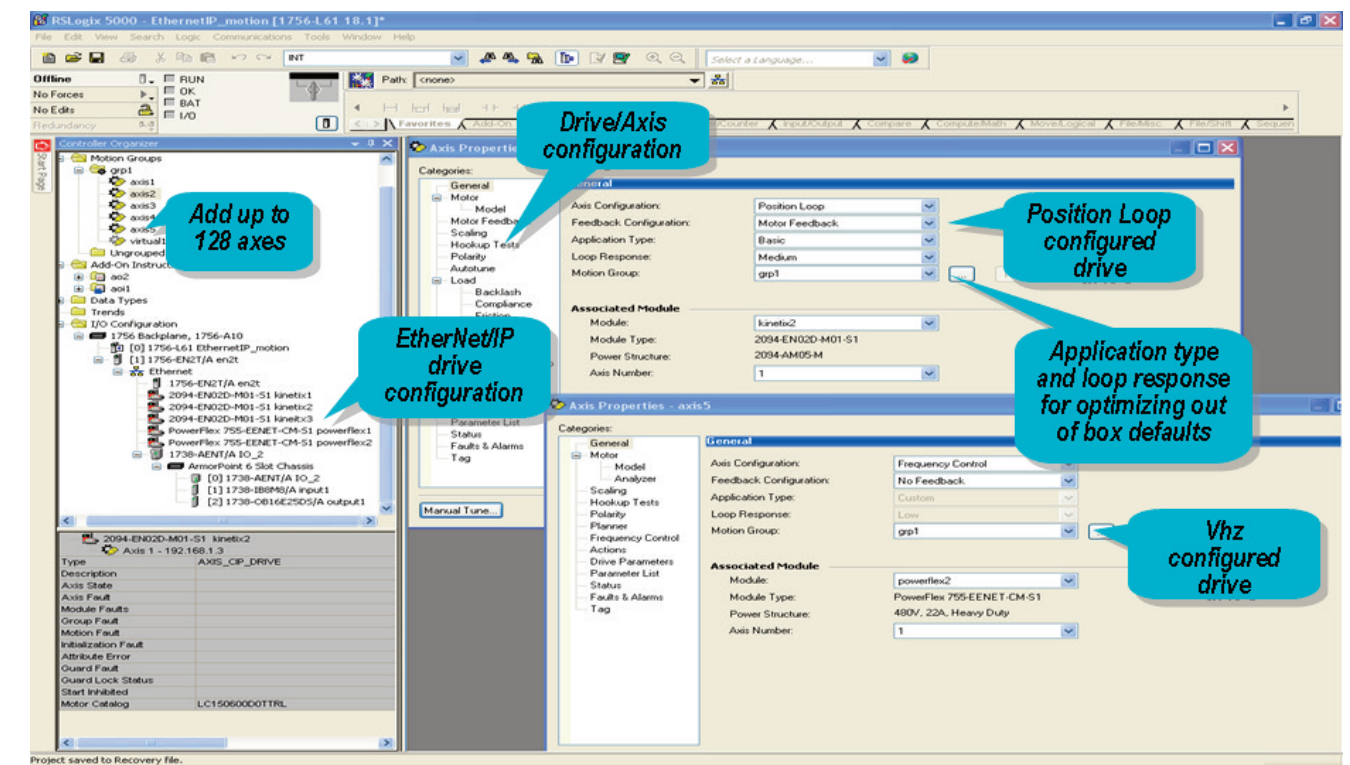
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System: Communication Hardware		
1	1756-EN2TR	2-PORT CLX HI-CAP ENET/IP
1	1783-BMS10CGP	STRATIX 5700 MANAGED SWITCH WITH DLR
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