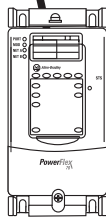
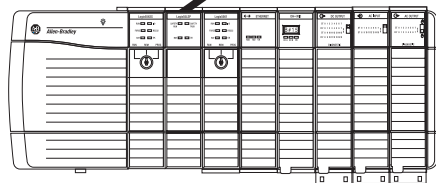
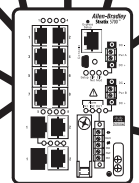
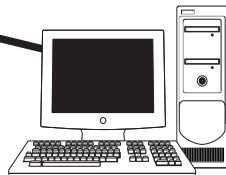
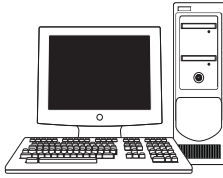
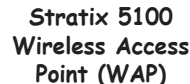
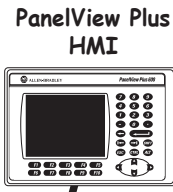
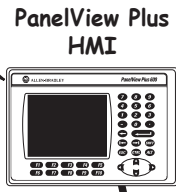


ENTERPRISE

HMI Configuration
RSView SE supports multiple servers and multiple client scalable configurations



For more information see *Wireless Design Considerations for Industrial Applications*

Stratix Switches Configuration
• Either a managed or unmanaged switch can be used, depending on your application requirements. See "About The Products Stratix Switches" on back for more information.
• Scale your switch selection to your application with these Rockwell Automation switches:
- Stratix 8000, 5700 and 6000 Managed Switches
- Stratix 2000 Unmanaged Switches
• When connecting machines to a high level plant network, IT networking best practices need to be considered.

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

EtherNet/IP Network Capacity
• EtherNet/IP utilizes standard Ethernet TCP/IP technology to allow you to easily mix and match high speed Motion control, I/O control, drive control, and HMI on a single network

CompactLogix 5370 L3 Overview	L30ER-NSE	L30ER	L30ERM	L33ER	L33ERM	L36ERM
Memory	1MB	1MB	1MB	2MB	2MB	3MB
Local I769 Expansion Modules	8	8	8	16	16	30
EtherNet/IP I/O Nodes	16	16	16	32	32	48
Integrated Motion	No	No	1-4 Axis CIP Motion	No	1-8 Axis CIP Motion	1-16 Axis CIP Motion

CompactLogix 5370 L3 Performance
• 2 drives/msec (L30ERM, L33ERM, L36ERM)
• Built-in energy storage eliminates the need for lithium batteries

CompactLogix 5370 L3 Configuration
• Common development environment for all control disciplines across the entire Logix Family.
• USB Port provides easy access to module and networks for configuration, and troubleshooting

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

Stratix Switches Configuration
• Either a managed or unmanaged switch can be used, depending on your application requirements. See "About The Products Stratix Switches" on back for more information.
• Scale your switch selection to your application with these Rockwell Automation switches:
- Stratix 8000, 5700 and 6000 Managed Switches
- Stratix 2000 Unmanaged Switches
• When connecting machines to a high level plant network, IT networking best practices need to be considered.

The 1783-ETAP can be used to connect devices that do not currently have the 2 port embedded linear/ring technology.

CompactLogix 5370 L3 Capacity
• Scalable to a wide range of applications (See Table)
• With L30ERM, L33ERM, L36ERM, support for Integrated Motion on EtherNet/IP provides a cost effective solution for from 1-16 axis of motion

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)

Ethernet Configuration Option
Redundant Ethernet with primary and secondary IP switching is commercially available

Ethernet Configuration
EtherNet/IP supports remote configuration of controller, PV+, drives and other devices connected to EtherNet/IP and DeviceNet.

PowerFlex 4-Class Capacity
• 0.5 - 15 HP
• 120V - 600V
• 24VDC digital I/O
• Analog I/O
• Internal EtherNet/IP adapter on PowerFlex 40

PowerFlex 4-Class Configuration
• Built-in operator display for configuration and monitoring
• Remote (Nema 1 & 4) HIM options
• DriveExplorer and DriveExecutive software tool options

PowerFlex 4-Class Performance
• V/Hz or SVC PowerFlex 40/40L)
• Slip compensation
• 40:1 speed range
• EtherNet/IP allows complete access to data in drive
• "Multi-Drive" feature allows up to 5 drives per node
• Serial peripheral interface (19.2K bps)

1769 I/O Capacity
• Supports up to 30 I769 I/O Modules (in 3 banks, via extended rack)
• I769-AENTR EtherNet/IP adapter utilizes embedded switch technology to support linear or ring topologies

EtherNet/IP Network Capacity
• EtherNet/IP utilizes standard Ethernet TCP/IP technology to allow you to easily mix and match high speed Motion control, I/O control, drive control, and HMI on a single network

PowerFlex 525 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 525 Performance
• V/Hz, SVC, PM, Economizer
• Embedded EMC Filter for Iph 240V & 3ph, 480V
• Embedded Safety-Torque Off (SIL2/PLd)
• Closed Loop Feedback allows Positioning Capability (Encoder Card Option)

PowerFlex 525 Configuration
• Innovative LCD Display
• USB Powered Programming
• Studio 5000 Logix Designer Programming with AOPs
• Connected Component Workbench (CCW) Programming

EtherNet/IP Device Level Ring (DLR) Capacity
• Single fault tolerant network provides resiliency
• ODVA standard supports multivendor solutions.

EtherNet/IP Device Level Ring (DLR) Configuration
• One node is configured to be the Ring Supervisor
• Typically this is the L2 processor, can also be a 1783-ETAP

EtherNet/IP Device Level Ring (DLR) Performance
• High performance network recovery - validated at 3msec or less for up to 50 nodes.

Note: Performance is what we tested, not the max capacity



WiFi for Industrial Applications

Bill of Material

About the Products

A MTU

Qty	Catalog #	Description
MTU Hardware		
System: ControlLogix Controller Hardware		
1	1756-PA72	10 AMP AC POWER SUPPLY
1	1756-A7	7 SLOT CHASSIS
1	1756-ENBT	CONTROLLOGIX ETHERNET/IP COMM CARD
1	1756-CNBR	CONTROLLOGIX CARD, REDUNDANT MEDIA
HMI Hardware		
1	2711P-B10C4B1	PV PLUS 1000, KEY/TOUCH ETHERNET, AC PS
Drive Hardware		
1	20AB6P8COAYNANN	POWERFLEX 70 DRIVE-WALL MOUNT
	20 COMM-E	POWERFLEX 70 ETHERNET INTERFACE
1	22A-A1P5N114	POWERFLEX 4 DRIVE
1	22-COMM-D	POWERFLEX 4 DEVICENET INTERFACE
1	22-XCOMM-DC-BASE	EXTERNAL DSI COMM KIT

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, enclosure type. In addition, you may wish to add on optional equipment, such as HIM module or Brake Resister. Please refer to the PowerFlex Selection Guide for additional details on selecting the right drive for your application.

B REMOTE MONITORING

Qty	Catalog #	Description
System: Controller Hardware (choose one)		
1	1769-L36ERM	COMPACTLOGIX 5370 L3 PROCESSOR 3MB MEMORY
System: Controller Hardware		
1	1769-PA2	85-265 VAC POWER SUPPLY (5V @ 10 AMP)
System: Communication Hardware		
1	1783-BMS06TL	STRATIX 5700 MANAGED SWITCH - 6 FAST ETHERNET COPPER PORTS
HMI Hardware		
1	2711P-T10C4D9	PANELVIEW PLUS 6 1000 COLOR TOUCH TERMINAL, ETHERNET
Distributed I/O Hardware - POINT I/O		
1	1734-AENTR	1734 DUAL PORT 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 - 1769 I/O		
1	1769-AENTR	ETHERNET IP ADAPTER
1	1769-PA2	POWER SUPPLY 120/240 VAC INPUT
		2 AMP @ 5 VDC OUTPUT
1	1769-IQ16	16 POINT 24 VDC SINKING/SOURCING INPUT MODULE
1	1769-OB16	16 POINT 24 VDC SOURCING OUTPUT MODULE
1	1769-IF4XOF2	8 BIT RESOLUTION, HIGH SPEED 4 IN/2 OUT ANALOG COMB
1	1769-ECR	RIGHT END CAP/TERMINATOR

C RTU

Qty	Catalog #	Description
System: Controller Hardware (choose one)		
1	1769-L36ERM	COMPACTLOGIX 5370 L3 PROCESSOR 3MB MEMORY
System: Controller Hardware		
1	1769-PA2	85-265 VAC POWER SUPPLY (5V @ 10 AMP)
System: Communication Hardware		
1	1783-BMS06TL	STRATIX 5700 MANAGED SWITCH - 6 FAST ETHERNET COPPER PORTS
Motion Hardware		
2	2198-H003-ERS	KINETIX 5500 2.5Amps (RMS)
2	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.		
7	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
1	1585J-M8CBJM-5	SHIELDED ETHERNET CABLES FOR CIP DRIVES, 5 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		
2	25B-D2P3N104	POWERFLEX 525 DRIVE, 1 HP FRAME A
1	25-COMM-E2P	DUAL PORT ETHERNET CARD (LINEAR/RING ONLY)

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 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-AENTR	1734 DUAL PORT 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 - 1769 I/O		
1	1769-AENTR	ETHERNET IP ADAPTER
1	1769-PA2	POWER SUPPLY 120/240 VAC INPUT
		2 AMP @ 5 VDC OUTPUT
1	1769-IQ16	16 POINT 24 VDC SINKING/SOURCING INPUT MODULE
1	1769-OB16	16 POINT 24 VDC SOURCING OUTPUT MODULE
1	1769-IF4XOF2	8 BIT RESOLUTION, HIGH SPEED 4 IN/2 OUT ANALOG COMB
1	1769-ECR	RIGHT END CAP/TERMINATOR

Distributed I/O Hardware - OTHER		
1	1732E-IB8M8SOER	SLIM ARMORBLOCK SOE MODULE

Recommended Software		
1	9324-RLD200INTL	STUDIO 5000 LOGIX DESIGNER MINI INTERNATIONAL

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

1	9701-VWSTMENE	RSVIEW STUDIO FOR MACHINE EDITION
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Note: You will need to purchase the RSView runtime in addition to the studio if you upgrade from PanelView Plus to the VersaView PC.

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
- Multiple Program Languages available in all controllers - Ladder Diagram, Function Block, Structured Text, and Sequential Function Chart
- Tag-based architecture instead of addresses native in the controller
- AMCI 3402 module for Stepper Motion

PanelView Plus Compact + PanelView Plus 6

- Reuse tags from Logix controllers by choosing them from a list
- 4" - 15" screen sizes available
- Touchscreen, keypad or combination
- Integrated EtherNet/IP, add-on communications for many other networks
- Advanced Operator Interface features such as trending, expressions, data logging, animation.

PowerFlex Drives

- Serves applications ranging from 0.2 kW (0.25 hp) to 6,770 kW (9,000 hp).
- Common set of networks, operator interface and programming for all PowerFlex drives
- Communication Options - Ethernet/IP, ControlNet, Devicenet, DH Plus, RIO, 3rd party networks
- Hundreds of pieces of status and diagnostic information are shared with Logix controllers directly

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
- Kinematics Integrated Motion Solution for Robot Control utilizes standard Logix/Kinetix integrated motion technology

POINT I/O

- Available in IP-20 or IP-67 styles
- Densities from 2-8 points per module
- Removable screw or spring terminals without rewiring
- Mounts horizontally or vertically with no derating required
- Supports EtherNet/IP, ControlNet, DeviceNet and 3rd party networks

Stratix Switches and Network Infrastructure

- Stratix 6000, 5700 and 8000 Managed switches offer Loop Prevention, Security Services, Diagnostic Information, Segmentation Services(VLANs), Prioritization Services(QoS), and Multicast Management Services.
- Consider Network Address Translation (NAT), available with the 9300-ENA NAT device and the Stratix 5700 with NAT option, depending on your application requirements.

For More Information and Help

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

- www.ab.com (Product Directory, Publication Library, Technical Support)