

Compact GuardLogix 5370 Overview	L30ERMS	L33ERMS	L36ERMS
Standard Memory	1MB	2MB	3MB
Safety Memory	.5MB	1MB	1.5MB
Total Memory	1.5MB	3MB	4.5MB
Local 1769 Expansion Modules	8	16	30
EtherNet/IP I/O Nodes	16	32	48
Integrated Motion	1-4 Axis CIP Motion	1-8 Axis CIP Motion	1-16 Axis CIP Motion

Compact GuardLogix 5370 Performance

- 2 drives/msec (L30ERMS,L33ERMS,L36ERMS)
- Built-in energy storage eliminates the need for lithium batteries

Stratix 5700 Configuration

- Scalable Layer 2 managed industrial switch
- Default configurations for industrial automation and EtherNet/IP devices (Global and Smartports)
- Includes integrated Device Level Ring (DLR) connectivity which helps optimize the network architecture.
- Integrated Network Address Translation (NAT) provides 1:1 IP address mapping helping to reduce commissioning time
- Best of Cisco - Catalyst® switch architecture/ feature set

Machine Safety

SIL 3(According to EN62061/EN 61511-1/IEC 61508), PLe (According to EN ISO 13849-1), Cat 4(According to EN ISO 13849-1), 1 out of 2(1002) Hardware Structure

Compact GuardLogix 5370 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

Compact GuardLogix 5370 Capacity

- Scalable to a wide range of applications (See Table)
- With L30ERMS,L33ERMS,L36ERMS, support for Integrated Motion on EtherNet/IP provides a cost effective solution for from 1-16 axis of motion

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.
- Built-in Hardwired Safe Torque-off, SIL CL2, PLe, Cat 3. (ISO 13849)
- Built-in Integrated Safety on EtherNet/IP (Safe Torque Off) SIL CL3, PLe, Cat 3 (ISO13849)

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

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

EtherNet/IP Device Level Ring (DLR) Performance

- High performance network recovery - validated at 3msec or less for up to 50 nodes.

PanelView Plus 7 Capacity

- 512 MB Memory
- Up to 25 displays
- SD storage card slot for data storage, data logging, recipe management and terminal replication
- USB ports for printer, RFID reader and web camera support
- Windows CE 6.0 standard features, including email and text notification and secure FTP server, PDF Viewer

PanelView Plus 7 Configuration

- Complementary to CompactLogix 5370 controllers
- Faceplates and AOIs
- Single Development Environment

PanelView Plus 7 Performance

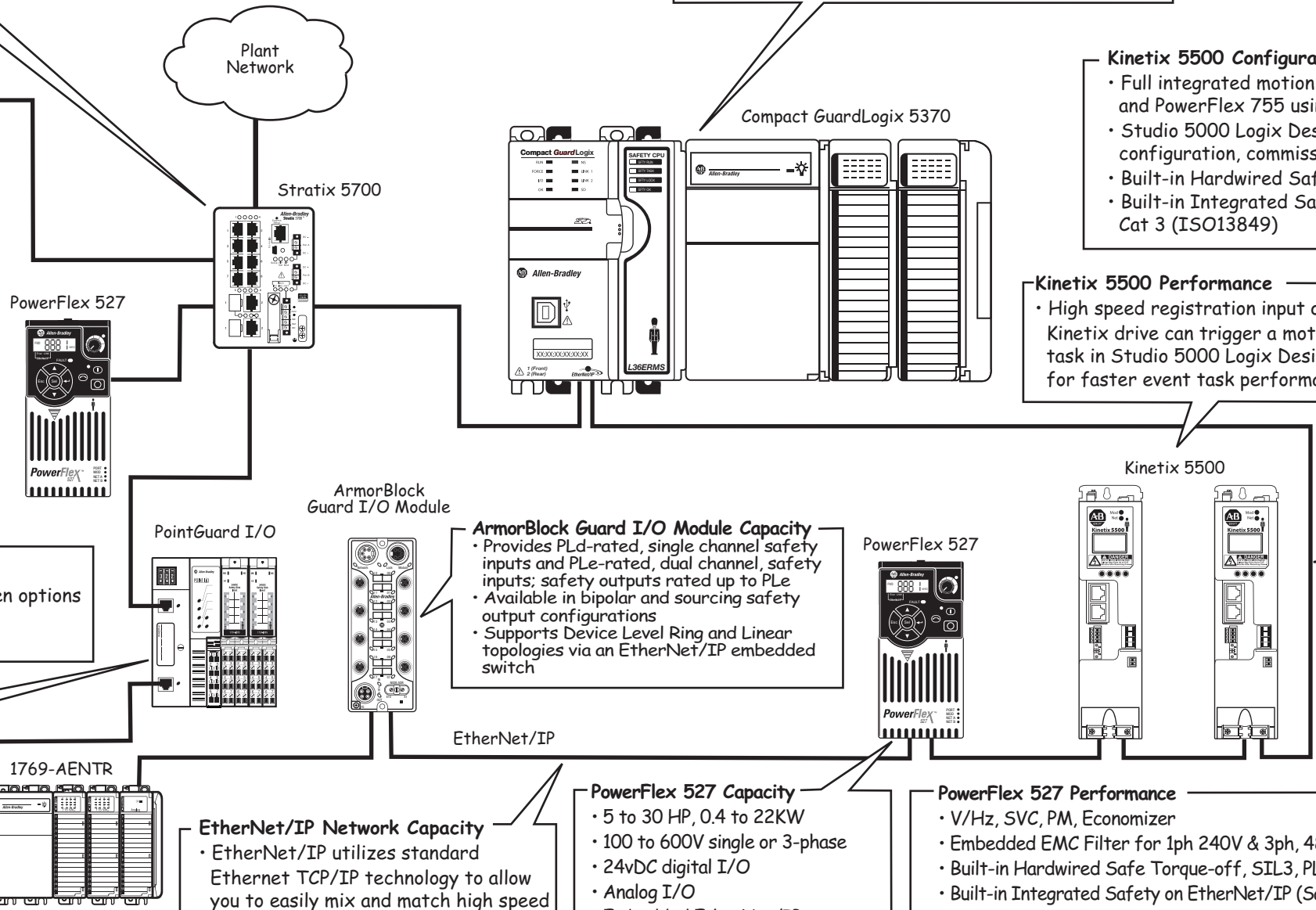
- ARM - 1.0 GHz
- Form factor includes sizes from 4" to 15" with wide screen options
- ATEX Zone 2/22 and UL Class 1, Div 2 certification for use in hazardous environments

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
- Mix safety inputs and outputs with standard POINT I/O, all with one node

1769 I/O Capacity

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



ArmorBlock Guard I/O Module Capacity

- Provides PLD-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Supports Device Level Ring and Linear topologies via an EtherNet/IP embedded switch

PowerFlex 527 Capacity

- 5 to 30 HP, 0.4 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 Performance

- V/Hz, SVC, PM, Economizer
- Embedded EMC Filter for 1ph 240V & 3ph, 480V
- Built-in Hardwired Safe Torque-off, SIL3, PLe, Cat 3. (ISO 13849-1)
- Built-in Integrated Safety on EtherNet/IP (Safe Torque Off) SIL CL3, PLe, Cat 3 (ISO13849)
- Closed Loop Feedback allows Positioning Capability (Encoder Card Option)

PowerFlex 527 Configuration

- Innovative LCD Display
- Studio 5000 Logix Designer Programming with AOPs

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

Bill of Material

Qty	Catalog #	Description
System: Controller Hardware		
1	1769-L36ERMS	COMPACT GUARDLOGIX 5370 PROCESSOR 3MB MEMORY
1	1769-IA16	16 Point 120 VAC Input Module
1	1769-OB16	16 Point 24 VDC Sourcing Output Module
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 feed-back, motor brake, and motor power.		
1	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
1	1585J-M8CBJM-OM3	SHIELDED ETHERNET CABLES FOR CIP DRIVES, .3 METERS
<i>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</i>		
Drive Hardware		
1	25C-B5PON104	POWERFLEX 527 DRIVE, 1 HP FRAME A
<i>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.</i>		
HMI Hardware		
1	2711P-T10C21D8S	PANELVIEW PLUS 7 STANDARD TERMINAL, TOUCH SCREEN, 10.4 INCHES, TFT COLOR, SINGLE ETHERNET, 24V DC, WINDOWS CE OS LICENSE, STANDARD MODEL

About this Configuration

This Compact GuardLogix 5370 based low cost system demonstrates the power and scalability of the Integrated Architecture on an EtherNet/IP based network. This system utilizes standard EtherNet 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.

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 350, Kinetix 5500, Kinetix 6500 and PowerFlex 755 family of products.

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
- 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

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

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 Guard I/O™

- Mix safety inputs and outputs with standard POINT I/O, all with one node.
- Easy configuration by using RSLogix 5000 with full support of IP addressing. Optimize installations by assigning individual test output for safety input device.
- Connect single and dual-channel safety devices on inputs and outputs.
- Certified by TÜV for Functional Safety up to SIL CL 3 according to IEC 61508, and PLe/Category 4, according to ISO 13849-1.
- Muting lamp control and monitoring on selected test pulse outputs
- Supports EtherNet/IP, DeviceNet and 3rd party networks

ArmorBlock Guard I/O

- Provides PLd-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Supports Device Level Ring and Linear topologies via an EtherNet/IP embedded switch

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.
- Stratix 2000 Unmanaged Switches offer no layer 2 or layer 3 management functionality, but offer lower cost.
- 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)

Stratix 5700 Configuration

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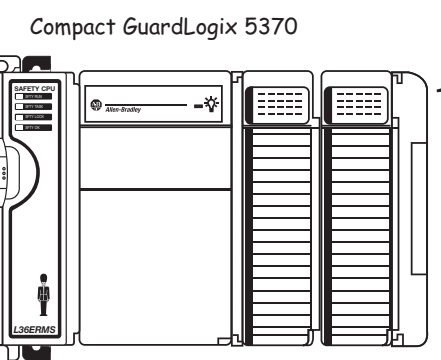
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1769 I/O Capacity

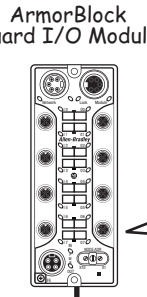
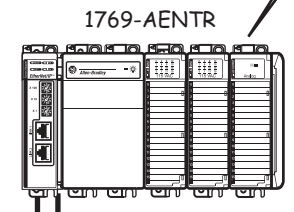
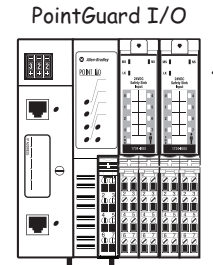
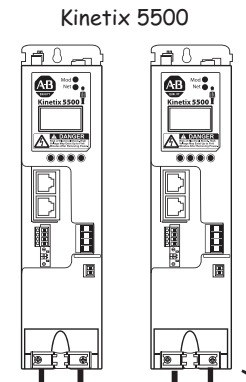
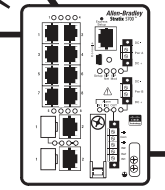
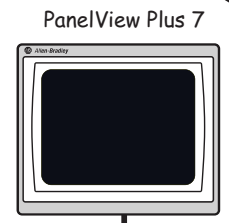
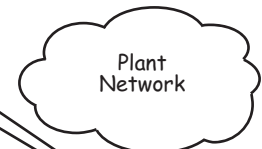
- Supports up to 30 1769 I/O Modules (in 3 banks, via extended rack)
- 1769-AENTR EtherNet/IP adapter utilizes embedded switch technology to support linear or ring topologies

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ArmorBlock Guard I/O Module Capacity

- Provides PLd-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Supports Device Level Ring and Linear topologies via an EtherNet/IP embedded switch



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



Compact GuardLogix 5370 Star/Linear

Bill of Material

Qty	Catalog #	Description
System: Controller Hardware		
1	1769-L36ERMS	COMPACT GUARDLOGIX 5370 PROCESSOR 3MB MEMORY
1	1769-IA16	16 Point 120 VAC Input Module
1	1769-OB16	16 Point 24 VDC Sourcing Output Module
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 feed-back, motor brake, and motor power.		
1	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
1	1585J-M8CBJM-OM3	SHIELDED ETHERNET CABLES FOR CIP DRIVES, .3 METERS
<i>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</i>		
Drive Hardware		
1	25C-B5PON104	POWERFLEX 527 DRIVE, 1 HP FRAME A
<i>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.</i>		
HMI Hardware		
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Distributed I/O Hardware - POINT I/O		
1	1734-AENTR	1734 DUAL PORT ETHERNET/IP ADAPTER
1	1734-FPD	FIELD POTENTIAL DISTRIBUTOR
1	1734-IB8S	24V DC 8 Input Safety Module
1	1734-OB8S	24V DC 8 Output Safety 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 - ArmorBlock Guard I/O		
1	1732ES-IB12XOB4	ETHERNET/IP SAFETY ARMOR BLOCK INPUT MODULE, 12 INPUTS, 4 SOLID STATE SOURCING OUTPUTS

Recommended Software		
1	9324-RLD200INTL	STUDIO 5000 LOGIX DESIGNER MINI INTERNATIONAL
<i>Note: ControlLogix Controllers can also be programmed when using Studio 5000 Logix Designer Standard, Full, or Pro.</i>		
1	9701-VWSTENE	FACTORYTALK VIEW STUDIO FOR FACTORYTALK VIEW
<i>Note: You will need to purchase the FactoryTalk View runtime in addition to the studio if you upgrade from PanelView Plus to the VersaView PC.</i>		

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