

**Compact 5000 I/O Performance**

- 1 Gb Dual Port EtherNet/IP Connectivity
- With Compact GuardLogix, under 1ms screw to screw performance

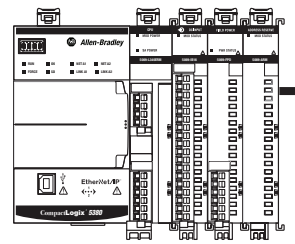
**Compact 5000 I/O Configuration**

- Supports Module Discovery and Add I/O Online up to SIL3/PLe safety rating

**Compact 5000 I/O Capacity**

- 31 I/O Modules in a single rack

**Compact 5000 I/O (with Standard and Safety)**



	Memory Size	Total # of Controller EtherNet/IP node
5069-L306ERS2/ERMS2	0.6 MB	16
5069-L310ERS2/ERMS2	1 MB	24
5069-L320ERS2/ERMS2	2 MB	40
5069-L330ERS2/ERMS2	3 MB	60
5069-L340ERS2/ERMS2	4 MB	90
5069-L350ERS2/ERMS2	5 MB	120
5069-L380ERS2/ERMS2	8 MB	150
5069-L3100ERS2/ERMS2	10 MB	180

**Compact GuardLogix 5380 Controller Performance**

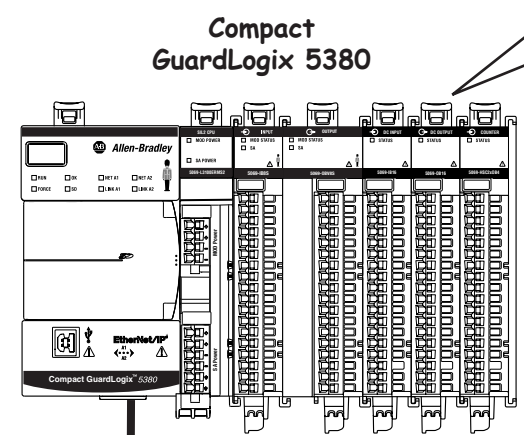
- High performance CPU optimized for faster safety reaction time
- Increased safety integration and enhanced security features
- Single Software, Network and Controller for Standard and Safety Control

**Compact GuardLogix 5380 Controller Configuration**

- Scalable Safety up to PLd
- SIL CL2, Up to PLd -Primary Controller
- PLd / SIL2 in Motion and non-Motion applications

**Compact GuardLogix 5380 Controller Capacity**

- Integrated Motion on EtherNet/IP™ up to 32 axes
- Embedded Ethernet port 100/1000Mb
- Safety memory 0.6 - 10 MB
- Scalable Safety Level- SIL CL2/PLd
- Increased Safety Integration-Networked Safety Functions with drives and Motion, by using safety instructions in the safety task



**Stratix Switch Family**

- Scale your switch selection to your application with these Rockwell Automation switches with 1 Gb port capability:
- Stratix 8300, 8000, 5700 and 5400 switches
- When connecting machines to a high level plant network, consider IT networking best practices

1 Gb

**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

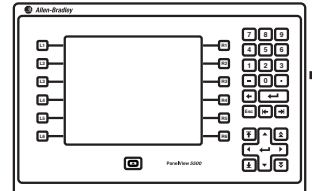
**Kinetix 5500 Configuration**

- 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)
- 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

**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

**PanelView 5500**



**Panelview™ 5500 Performance**

- ARM 1.0 GHz or X86 1.66 GHz CPU
- 4, 6, 7, 9, 10, 12, 15 and 19 inch Display Sizes
- Color Keypad/Touch Screen Options

**Panelview™ 5500 Configuration**

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

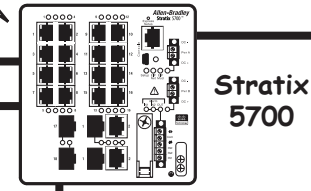
**Panelview™ 5500 Capacity**

- 512 MB - 1 Gb Memory
- Hot Swappable Secure Digital (SD) card slot
- 2-3 USB ports for external devices, programming
- Windows CE 6.0 operating system

1 Gb

100 Mb

100 Mb



**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

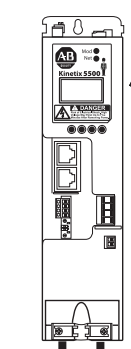
**PowerFlex 527 Configuration**

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

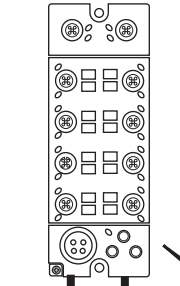
**PowerFlex 527 Capacity**

- 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)

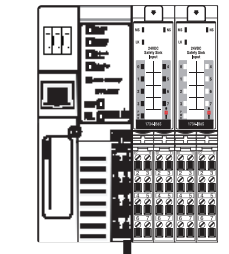
Kinetix 5500



**ArmorBlock Guard I/O**



**PointGuard I/O (with Standard & Safety)**



**PointGuard Distributed I/O Module Capacity**

- Easy Retrofit Add to existing panels using POINT I/O
- TÜV certified- For use in safety applications up to SIL3, PLe and CAT 4
- CIP Safety over EtherNet/IP or DeviceNet
- Safety and automation control in one I/O solution

**ArmorBlock Guard I/O Module Capacity**

- Provides PLd-rated and dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Includes dual Ethernet ports for Linear and Device Level Ring topologies

# Bill of Material

Qty	Catalog #	Description
<b>System: Controller Hardware</b>		
1	5069-L3100ERM52	COMPACT GUARDLOGIX 5380 PROCESSOR 10MB STANDARD MEMORY, 5 MB SAFETY MEMORY, SIL2 Pld SAFETY CONTROLLER
1	5069-IB85	8 POINT SAFETY 24VDC INPUT MODULE
1	5069-OBV8S	8 POINT SAFETY 24VDC BIPOLAR OUTPUT MODULE
<b>System: Communication Hardware</b>		
1	1783-BMS06TL	STRATIX 5700 MANAGED SWITCH - 6 FAST ETHERNET COPPER PORTS
<b>Motion Hardware</b>		
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.		
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>		
<b>Drive Hardware</b>		
1	25C-D2P3N104	POWERFLEX 527 DRIVE, 1 HP FRAME A
1	25C-D2P3N114	POWERFLEX 527 DRIVE WITH EMBEDDED DUAL PORT ETHERNET/IP AND INTEGRATED SAFETY, 1 HP 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.*

Distributed I/O Hardware - Compact 5000 I/O		
1	5069-AENTR	ETHERNET/IP ADAPTER
1	5069-IB85	8 POINT 24VDC INPUT SAFETY MODULE
1	5069-OBV8S	8 POINT 24VDC SOURCING/ BIPOLAR OUTPUT SAFETY MODULE

Distributed I/O Hardware - POINT GUARD I/O		
1	1734-AENTR	1734 DUAL PORT ETHERNET IP ADAPTER
1	1734-IB85	24V DC 8 POINT INPUT SAFETY MODULE
1	1734-OB85	24V DC 8 POINT SOURCING 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 - OTHER		
1	1732ES-IB16	24V DC 16 INPUT/ETHERNET/IP SAFETY

HMI Hardware		
1	2715-B10CD	PANELVIEW PLUS 5500 10" COLOR TOUCH TERMINAL, ETHERNET

Recommended Software		
1	9324-RLD300ENE	STUDIO 5000 LOGIX DESIGNER V 31 STANDARD EDITION

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

## Compact 5000 I/O

- A new generation of Compact I/O
- High performance control in a compact design
- Scan time improvements as much as 10x
- Mixture of standard and safety I/O available

## PanelView 5500

- 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

## POINT Guard I/O

- Fits into the standard POINT I/O™ system
- Communicates by using the CIP™ Safety protocol over EtherNet/IP™ for GuardLogix™ controllers
- For EtherNet/IP connectivity, use a POINT I/O EtherNet/IP adapter (1734-AENT, 1734-AENTR)
- 1734 POINT Guard I/O™ system, Supports 24V DC I/O circuits and Includes analog input circuits

## ArmorBlock Guard I/O

- Used only with GuardLogix®, Compact GuardLogix, and Armor™ GuardLogix, configurable with a module-specific profile in Studio 5000 Logix Designer® software
- Provides Pld-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety output rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Includes dual Ethernet ports for Linear and Device Level Ring topologies

## Stratix Switches and Network Infrastructure

- Stratix 5400, 5700, 8000 and 8300 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 5400/5700 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](http://www.ab.com) ( Product Directory, Publication Library, Technical Support)

## About this Configuration

Compact GuardLogix 5380 Safety controller provides integrated safety and integrated Motion(Via EtherNet/IP) capabilities in a single controller and used the same configuration, networking and visualization environment as our Large-scale ControlLogix based systems, providing scalable integrated safety and motion option for a wider range of machines. The controller has Integrated safety and offers reduced system complexity and hardware cost savings.

## 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
- For GuardLogix controller, only ladder diagram is available for 'safety task'

**Rockwell  
Automation**



**Compact 5000 I/O Performance**

- 1 Gb Dual Port EtherNet/IP Connectivity
- With ControlLogix 5380S, under 1ms screw to screw performance

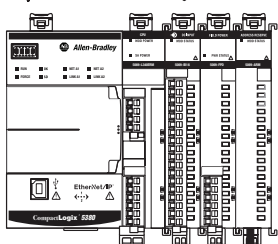
**Compact 5000 I/O Configuration**

- Supports Module Discovery and Add I/O Online up to SIL3/PLe safety rating

**Compact 5000 I/O Capacity**

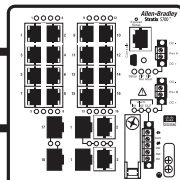
- 31 I/O Modules in a single rack

**Compact 5000 I/O (with Standard & Safety)**



**Stratix Switch Family**

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  - Stratix 8300, 8000, 5700 and 5400 switches
  - When connecting machines to a high level plant network, consider IT networking best practices.



**Kinetix 5500 Performance**

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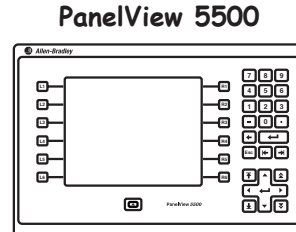


**Kinetix 5500 Configuration**

- 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)
- 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

**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



**Panelview™ 5500 Performance**

- ARM 1.0 GHz or X86 1.66 GHz CPU
- 4, 6, 7, 9, 10, 12, 15 and 19 inch Display Sizes
- Color Keypad/Touch Screen Options

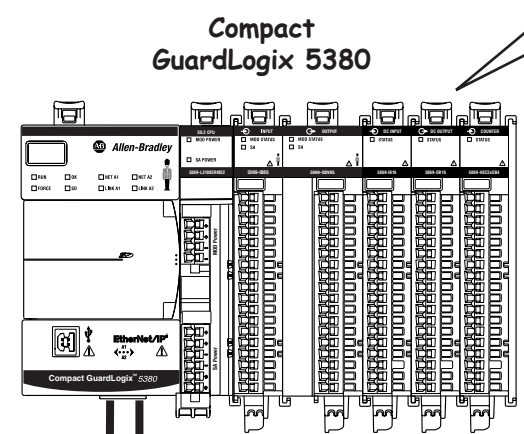
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- Premier Integration with Logix Controllers
- Logix Tag Reuse, Global Objects, Faceplates and AOIs
- Single Development Environment

**Panelview™ 5500 Capacity**

- 512 MB - 1 Gb Memory
- Hot Swappable Secure Digital (SD) card slot
- 2-3 USB ports for external devices, programming
- Windows CE 6.0 operating system

	Memory Size	Total # of Controller EtherNet/IP node
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**Compact GuardLogix 5380 Controller Configuration**

- Scalable Safety up to PLd
  - SIL CL2, Up to PLd - Controller
- PLd / SIL2 in Motion and non-Motion applications

**Compact GuardLogix 5380 Controller Capacity**

- Integrated Motion on EtherNet/IP™ up to 32 axes
- Embedded Ethernet port 100/1000Mb
- Safety memory 0.6 - 10 MB
- Scalable Safety Level- SIL CL2/PLd
- Increased Safety Integration-Networked Safety Functions with drives and Motion , by using safety instructions in the safety task

100 Mb

Stratix 5400



**PowerFlex 527 Performance**

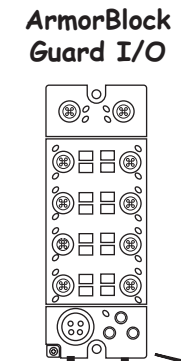
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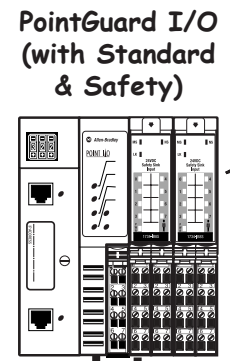
**PowerFlex 527 Capacity**

- 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)



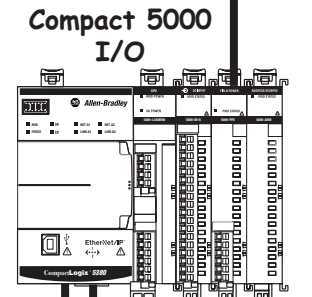
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- TÜV certified- For use in safety applications up to SIL3, PLe and CAT 4
- CIP Safety over EtherNet/IP or DeviceNet
- Safety and automation control in one I/O solution



**ArmorBlock Guard I/O Module Capacity**

- Provides PLd-rated and dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Includes dual Ethernet ports for Linear and Device Level Ring topologies



E-Stop

Light Curtain

# Bill of Material

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1	5069-IB85	8 POINT SAFETY 24VDC INPUT MODULE
1	5069-OBV8S	8 POINT SAFETY 24VDC BIPOLAR OUTPUT MODULE
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1	1783-BMS06TL	STRATIX 5700 MANAGED SWITCH - 6 FAST ETHERNET COPPER PORTS
<b>Motion Hardware</b>		
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.		
1	1585J-M8CBJM-1	SHIELDED ETHERNET CABLE FOR CIP DRIVES, 1 METER
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1	1734-IB85	24V DC 8 POINT INPUT SAFETY MODULE
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4	1734-TB	MODULE BASE W/REMOVABLE IEC SCREW TERMINALS
1	1794-PS13	85-264V AC TO 24V DC 1.3A POWER SUPPLY

<b>Distributed I/O Hardware - OTHER</b>		
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<b>HMI Hardware</b>		
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<b>Recommended Software</b>		
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