Configuration-EtherNet/IP, DeviceNet Plant MRP CompactLogix L43, L435 Control and RA Controllers enable business System, Database; Configuration CompactLogix L43, L43S Control Capacitysystems to plant floor communications, Order Tracking Systems · Any mix of 1768 SERCOS or • 1-4 axis co-ordinated motion providing the ability to share thousands EtherNet/IP modules • Up to 2 auxiliary feedback of pieces of information with no • Up to 6 virtual axis • Any mix of 1769 discrete, analog or programming required specialty I/O modules 2Mbyte user memory • Up to 32 points per digital modules Supports 2 additional 1768 modules and 8 points per analog module -HMI Capacity Built-in RS-232 port that supports • 1769 I/O modules can be ASCII, DH-485, DF1, and Modems 200 screens PanelView individually configured down to a 250 tags per screen L435 PV+ Plus 1 msec scan rate • .5Mbyte safety memory HMI • Up to 8 1769 I/O modules on the • Up to SIL 3 PLe programmable safety local rack and 16 modules total · Broad suite of Safety certified HMI Configuration Option • Up to 3 1769 I/O banks maximum RS-232 or EtherNet/IP connection. application instructions. Alan-Bradley В • As an option to using a PV+ you can USB use a VersaView industrial computer with windows XP, RSLogix 5000, Stratix CompactLogix L43 or CompactGuardLogix L43S 6000 Drive Executive Lite and RS View Studio for ME to have an HMI and - 1768 Bus - 1769 Bus Bar Code programming terminal in one. 6 **Power**Flex Reader PowerFlex 4-Power Supply I/O specialty modules HMI Performance Component Class Drive With 50 tags/display and 100 alarm tags the typical update time on ENET is 1 sec and RS-232 is 2 sec EtherNet/IP SERCOS PowerFlex 7-POINT I/O & Architecture POINTGuard I/O Class Drive PowerFlex 4-Class VFD Capacity POINT I/O Capacity • 0.5 - 15 HP • The maximum is 63 POINT I/O modules PowerFlex 7-Class VFD Capacity • 0.2-11.2 KW per adapter 0.5 - 9000 HP • 120V - 600V • The adapter supplies 1 amp current • 0.37-6770 KW • 24vDC digital I/O for POINT modules • 200V - 690V • Analog I/O To connect additional modules, use • 24V DC & 120V AC digital I/O • EtherNet/IP adapter 1734-EP24V DC Expansion Power supplies • Analog I/O • Refer to individual module spec's to • Internal EtherNet/IP adapter PowerFlex 4-Class VFD determine power requirements Configuration PointGuard modules can be used anywhere PowerFlex 7-Class VFD Configuration • Built-in operator display for for SIL2 or SIL3 safety inputs and outputs Kinetix • Requires a HIM or drive configuration and monitoring Servo Drives software tool to configure • Remote (Nema 1 & 4) HIM options · Local (on drive cover) and • DriveExplorer and DriveExecutive remote (Nema 1 & 4) HIM options software tool options
 Alter-Gradity
 Image: Compactification of Compactinatio Compactification of Compactinatio Compactification Drive Explorer and DriveExecutive software tool options PowerFlex 4-Class Motor Feedback Α CompactBlock Guard I/O 1791ES-IBXOBV4 Motor Power VFD Performance Servo Motor V/Hz or SVC PowerFlex 7-Class VFD Performance Motor Feedback Slip compensation • V/Hz, SVC, Full vector with force technology Motor Power -Distributed EtherNet Safety – • 40:1 speed range Slip compensation Servo Moto • 1791ES SIL 3 PL e modules are Motor • EtherNet/IP allows complete • Torque control Feedback available in 16pt input and also Motor Power • Adjustable voltage mode access to data in drive 8 input/4 bipolar outputs versions "Multi-Drive" feature allows up • 40:1 to 1000:1 speed range Servo Moto Motor • EtherNet/IP allows complete access to all to 5 drives per node Feedback Motor Power · Serial peripheral interface (19.2K bps) the data in drive Servo Motor Rockwell Note: Performance is what we tested, Publication IASIMP-QR008C-EN-P - June 2010 not the max capacity **Automation** Supersedes IASIMP-QR008B-EN-P - January 2008

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Qty	Catalog #	Description
	System:	Controller Hardware
1	1768-L43	COMPACTLOGIX L43 PROCESSOR, 2 MEG MEMORY OR
1	1768-L43S	COMPACTGUARDLOGIX INTEGRATED CONTROLLER WITH 2M STD AND .5M SAFETY MEMORY
Note:	CompactLogix L43	and L435 have (1) serial port. Using this
port fo termin Ethern	or HMI does limit t al to the L43 and L net usina the 1768-l	he ability to connect a programming 435 . Consider moving the PV+ to ENBT
1	1768-M045F	COMPACTI OGTX SERCOS MODULE
1	1768_PA3	
	1700-175	120/240 VAC IN 1.1 WK SOITE/
Note : (1) 176	1768-PA3 can powe 88-1.43 Processor (8	r (2) 1768 modules) 1769 Modules
$\frac{(1)}{1}$	1768-ENBT	COMPACTLOGIX ETHERNET/IP
		COMM MODULE
1	1769-OF2	2 CHANNEL ANALOG
		CURRENT/VOLTAGE OUTPUT
1	1769-TQ16F	16 POINT 24 VDC HIGH SPEED
-		INPUT MODULE
1	1769-ECR	RIGHT END CAP/TERMINATOR
	۲	IMI Hardware
1	2711P-B6C1A	PANELVIEW PLUS 600 COLOR
		KEY/TOUCH TERMINAL , ETHEDNET
Note:	Panelview 400 and a	600 terminals provide a low cost
integra	ated Ethernet solut	ion to provide high performance
capabi	lity at a affordable	price.
1	2711-NC13	5 METER R5232 OPERATING/
	Distributed T/	D Handware - POTNIT T/O
1	1734-AEN I 1734_FPD	TTAL DISTRICT
1	1734-IA2	120V AC 2 CHANNEL INPUT
-		MODULE
1	1734-OA2	120/230V AC 2 CHANNEL
	1704 500 0	OUTPUT MODULE
2	1734-IB85	8 24V DC SAFETY INPUTS
2	1734-0885 1734-TR	MODULE BASE W/ REMOVABLE
-	1,01,10	IEC SCREW TERMINALS
1	1794-PS13	85-264V AC TO 24V DC 1.3A POWER SUPPLY
		rive Hardware
1	20AA2P2A0AYY	ADNN POWERFLEX 70 DRIVE - DEVICENET

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, and 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 you application.

1	22A-A1P5N114	PO	WERFLEX 4 DRIVE
1	22-COM-D	PO	WERFLEX4 DEVICENET
		IN	TERFACE
1	22-XCOMM-DC-	ΕX	TENAL DSI COMM KIT
		BA	SE
	M	otio	n Hardware
1	2094-BC02-M02	MO	DULE, INTEGRATED,
		400	/460V, 15KW CONV. 15A INV.
3	2094-BMP5	MO	DULE, AXIS, 400/460V, 4A INV.
1	2094-PRS4	SLI	M POWER RAIL, 230V OR 460V,
		4 A	XES
1	2090-XXLF-X3301	3	AC LINE FILTER, ROXBURGH
			MIF330
4	MPL-B310P-SJ22A	A	MOTOR, SERVO, 1.58
			NM, 5000RPM, SINGL,
-	2000 XXX DAD 1/	<u></u>	460V, 3.0KG
4	2090-XXNPMP-16	503	CABLE, NON-FLEX, MOTOR
			CALLEE 3M
Δ	2000-YYNEMD CO	13	CARLE NON-FLEY MOTOR
7		,5	FFEDBACK MP/1326AR 3M
Note	e: Cataloa numbers co	ncict	of characters each of which
iden	tifies a specific version	on or	option for that component.
Refe	erence Publication GM	C-56	002I-EN-E Kinetix Motion
Cont	rol Selection Guide fo	or ad	ditional information
	O [.]	ther	' Hardware
1	1756-CP3	RS-	232 CONFIGURATION CABLE
1	ENET SWITCH 8	POR	T ETHERNET SWITCH
			8-PORT
1	1791ES-IBXOBV4	СО	MPACTBLOCK GUARD I/O
Note	e: It is recommended	to u	se industrial switches with network
mana	agement capability.		
	Op	rion	al Hardware
1	6180W-15BPXPH	VE	RSAVIEW 15-INCH
		WO	RKSTATION, KEYPAD &
		TO	JCH PERFORMANCE
		FE/	TURES, WINDOWS XP
		HM	ISOFTWARE
1	1784-CF64	64/	MEG COMPACTFLASH CARD
1	1769-SDN	DE	VICENET SCANNER FOR
	47/01/02	176	9 BUS
1	1/69-HSC	2/4	CHANNEL HIGH SPEED
		COL	JNIER/ENCODER MODULE
	Recon	nme	nded Software
1	RLD250xxE*	RSI	OGIX 5000 LITE, CONTAINS
		ALL	LANGUAGES / RSLINX LITE
Note	e: CompactLogix Cont	rolle	rs can be programmed using RSLogi>
5000) Lite, Standara, Full,	or P	ro.
1	9701-VWSTMEN	ER	SVIEW STUDIO FOR
		N	ACHINE EDITION
Note	e: You will need to pu	rcha:	se the RSView runtime in addition to
the s	studio if you upgrade	from	PanelView Plus to the VersaView PC
1	9306-4EXP02ENE	٥	RIVE EXPLORER
1	9355-WABENE	R	SLINX PROFESSIONAL -
		0	DATA MONITOR AND
		1	DE/OPC SUPPORT

About this Configuration

This Integrated Architecture system demonstrates the scalability of the integrated CompactLogix & Kinetix Motion Control System. This system utilizies a standard EtherNet/IP network for high speed I/O control, drive control and controller to controller interlocking as well as easy integration with the business system, the Internet and co-exist with any commercially available Ethernet technologies. Although drawn in a typical 4 axis configuration, this is an ideal solution for machines that require 1 to 4 axes of coordinated motion control, the ability to control additional, non-coordinated axes, and need to link the machines on the plant floor with the business enterprise system over 1 single network.

Logix Controllers

- Multiple control disciplines in a single controller sequential / motion / drives / process / safety
- and Sequential Function Chart
- and bridging to other networks enabling remote device configuration

Kinetix Servos

- Safe torque off and advanced safety options for SIL 3 PL e requirements
- 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
- High precision performance with over 2,000,000 count position feedback
- applications and environmental challenges
- · Simplify installation using the 2094 Line Interface Module (LIM) as the incoming power source for an entire control panel

PanelView Plus HMI

- Reuse tags from Logix controllers by choosing them from a list
- 4"-15" screen sizes available
- Touchscreen, keypad or combination
- Integrated EtherNet/IP and RS-232 communications (most modules), add-on communication for many other networks
- · Advanced Operator Interface features such as trending, expressions, data logging, animation, diagnostics and alarming

PowerFlex Drives

- Safe torgue off and advanced safety options for SIL 3 PL e requirements
- 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

POINT I/O

- Available in IP-20 or IP-67 styles
- SIL 3 PL e safety modules can be used in any location alongside standard modules
- 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

For More Information and Help

- For more information contact your local distributor or Rockwell Automation sales representative. • www.ab.com
 - A Z Product Directory
- Publication Library
- My Support
- samplecode.rockwellautomation.com

About the Products

• A common set of controls, networks and programming software available in multiple hardware platforms • Multiple Program Languages available in all controllers - Ladder Diagram, Function Block, Structured Text,

• Embedded RS-232 port provides remote access as well as ASCII, DH-485, DF-1, Modbus Master/Slave

• Tag-based architecture instead of addresses, provides automatic documentation native in the controller • Easily handle your safety and control needs by using Compact GuardLogix for complete safety compliance

· Low inertia, food grade, stainless steel, integrated gearmotors and linear actuators to handle a variety of





Qty	Catalog #	Description
	System:	Controller Hardware
1	1768-L43	COMPACTLOGIX L43 PROCESSOR, 2 MEG MEMORY OR
1	1768-L43S	COMPACTGUARDLOGIX INTEGRATED CONTROLLER WITH 2M STD AND .5M SAFETY MEMORY
Note:	CompactLogix L43 d	and L435 have (1) serial port. Using this
port fo termin	or HMI does limit th al to the L43 and L4	he ability to connect a programming 435. Consider moving the PV+ to Etherne:
using t	he 1768-ENBT	
1	1768-M04SE	COMPACTLOGIX SERCOS MODULE
1	1768-PA3	120/240 VAC INPT. PWR SUPPLY
Note:	1768-PA3 can powe	r (2) 1768 modules
	1) 1768-L43 Process	sor (8) 1769 Modules
1	1768-ENBT	COMPACTLOGIX ETHERNET/IP
		COMM MODULE
1	1769-OF2	2 CHANNEL ANALOG
		CURRENT/VOLTAGE OUTPUT
2	1740 TO14E	
2	1/09-1010	TNPUT MODULE
1	1769-SDN	DEVICENET SCANNER FOR
-		1769 BUS
1	1769-ECR	RIGHT END CAP/TERMINATOR
	F	IMI Hardware
1	2711P-B6C1A	PANELVIEW PLUS 600
		COLORKEY/TOUCH TERMINAL, ETHERNET
Note:	Panelview 400 and 6	600 terminals provide a low cost
integro	ated Ethernet solut	ion to provide high performance
capabi	lity at a affordable	price.
1	2711-NC13	5 METER RS232 OPERATING/ PROGRAMMING CABLE
	Distribute	ed Network Hardware
2	1485A-T1E4	NEMA 6P, 13 TERMINATOR WITH IDC BASE
2	1485P-P1E4-R5	NEMA 6P, 13 MICRO MODULE WITH IDC BASE
3	1485K-P1F5-C	RIGHT ANGLE MICRO 1M TO CONDUCTOR
3	1485T-P1E4-B1	NEMA 6P, 13 POWER TAP WITH IDC BASE, 1M LENGTH
1	1485C-P1E75	FLAT CABLE, CLASS I, TPE JACKET, 75M
1	1606-XLDNET8	DEVICENET 24VDC POWER SUPPLY
Note: Thick/	DeviceNet provides Thin Cable). These	several media options (Flat Cable, options provide the versatility to select
the cal	ble that best fits y	our application. Refer to the Devicenet
Select	ion Guide tor additi	onal aetails

Selection Guide for additional details.				
Distributed Devicenet Devices				
1	193-EC1AB E3 EL	ECTRONIC OVERLOAD		
	RELAY	/, 100-C09C23, 1-5		
Drive Hardware				
1	20AA2P2A0AYYADNN	POWERFLEX 70DRIVE -		
		DEVICENET		

Not	e: PowerFlex dri	ves come in many variations - before		
orde	ering, you will nee	d to identify voltage rating, horsepower, and		
enci	osure type. In a nment such as l	Jaition, you may wish to ada on optional JTM module or Brake Desister Please		
refe	prient, such as t er to the PowerF	ex Selection Guide for additional details on		
sele	cting the right a	rive for you application.		
1	224_41P5N111			
1	22-COM-D			
1	22-00M-0	TNTERFACE		
1	22-XCOMM-1	C- EXTERNAL DST COMM KIT BASE		
		Motion Handware		
1	2094-BC02-N	02 MODULE INTEGRATED. 400 / 450V 15KW CONV. 15A INV.		
3	2094-BMP5	MODULE, AXIS, 400/460V, 4A INV.		
1	2094-PRS4	SLIM POWER RAIL, 230V OR 460V, 4 AXES		
1	2090-XXLF->	330B AC LINE FILTER, ROXBURGH MIF330		
4	MPL-B310P-S	J22AA MOTOR,SERVO,1.58		
		NM,5000RPM,SINGL,		
		460V,3.0KG		
4	2090-XXNP <i>I</i>	P-16S03 CABLE, NON-FLEX, MOTOR		
		POWER,MP/1326AB,16		
4	2090-XXNFA	FEEDBACK,MP/1326AB,3M		
Not	e: Catalog numbe	rs consist of characters, each of which		
iden	tifies a specific	version or option for that component.		
Refe	erence Publicatio	n GMC-SG002I-EN-E Kinetix Motion Control		
Sele	ection Guide for	idditional information		
		Other Hardware		
1	1756-CP3	RS-232 CONFIGURATION CABLE		
2	ENET SWIT	CH 8-PORT ETHERNET SWITCH		
		8-PORT		
1	1791ES-IBX	DBV4 COMPACTBLOCK GUARD I/O		
Note: It is recommended to use industrial switches.				
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	1734-0A2	120/230V AC 2 CHANNEL OUTPUT		
2	1734-IB85	8 24V DC SAFETY INPUTS		
1	1734-OB85	8 24V DC SAFETY OUTPUTS		
2	1734-TB	MODULE BASE W/ REMOVABLE		
		IEC SCREW TERMINALS		
1	1794-PS13	85-264V AC TO 24V DC 1.3A		
		POWER SUPPLY		
		Recommended Software		
1	RLD250xxE*	RSLOGIX 5000 LITE, CONTAINS		
		ALL LANGUAGES / RSLINX LITE		
Not 500	e: CompactLogix 0 Lite. Standard	Controllers can be programmed using RSLogi> Full. or Pro.		
1	9701 WALCT	ENE DONTEW STUDIO FOD		
1	9/01-V WS IN	MACHINE EDITION		
Not	e: You will need	to purchase the RSView runtime in addition to		
the	studio if you upg	rade from PanelView Plus to the VersaView PC		
1	9306-4EXP02	ENE DRIVE EXPLORER		
1	9355-WABEN	E RSLINX PROFESSIONAL -		

DATA MONITOR AND DDE/OPC SUPPORT

This Integrated Architecture system demonstrates the scalability of the integrated CompactLogix & Kinetix Motion Control System utilizing a DeviceNet network for high speed I/O control and drive control, while taking advantage of a standard EtherNet/IP network to link the machines on the plant floor with the business enterprise, Internet, and co-exist with commercially available Ethernet technologies. Although drawn in a typical 4 axis configuration, this is an ideal solution for machines that require 1 to 4 axes of coordinated motion control, as well as the ability to control non-coordinated axes over a DeviceNet network.

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 / safety
- Multiple Program Languages available in all controllers Ladder Diagram, Function Block, Structured Text, and Sequential Function Chart
- and bridging to other networks enabling remote device configuration
- Tag-based architecture instead of addresses, provides automatic documentation native in the controller

Kinetix Servos

- Safe torgue off and advanced safety options for SIL 3 PL e requirements
- 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
- High precision performance with over 2,000,000 count position feedback
- Low inertia, food grade, stainless steel, integrated gearmotors and linear actuators to handle a variety of applications and environmental challenges
- · Simplify installation using the 2094 Line Interface Module (LIM) as the incoming power source for an entire control panel

PanelView Plus HMI

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- 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

POINT I/O

- Available in IP-20 or IP-67 styles
- SIL 3 PL e safety modules can be used in any location alongside standard modules
- 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

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative. • www.ab.com • A - Z Product Directory Publication Library samplecode.rockwellautomation.com

- My Support

About this Configuration

• Embedded RS-232 port provides remote access as well as ASCII, DH-485, DF-1, Modbus Master/Slave • Easily handle your safety and control needs by using Compact GuardLogix for complete safety compliance





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Qt	y Catalog #	Description	
	Syste	m: Controller Hardware	
1	1768-L43	COMPACTLOGIX L43 PROCESSOR,	
		2 MEG MEMORY	
		OR	
1	1768-L43S	COMPACTGUARDLOGIX	
		INTEGRATED CONTROLLER WITH	
		2M STD AND .5M SAFETY	
		MEMORY	
Not	e: CompactLogix L	13 and L435 have (1) serial port. Using this	
port	t for HMI does limi	t the ability to connect a programming	
terr	ninal to the L43 and	d L435. Consider moving the PV+ to Etherner	
usin	g the 1768-ENBT		
1	1768-M04SE	COMPACTLOGIX SERCOS MODULE	
1	1768-PA3	120/240 VAC INPT. PWR SUPPLY	
Not	e: 1768-PA3 can pa	ower (2) 1768 modules	
	(1) 1768-L43 Pr	ocessor (8) 1769 Modules	
1	1768-ENBT	COMPACTLOGIX ETHERNET/IP	
		COMM MODULE	
1	1769-OF2	2 CHANNEL ANALOG	
		CURRENT/VOLTAGE OUTPUT	
		MODULE	
1	1769-IQ16F	16 POINT 24 VDC HIGH SPEED	
	•	INPUT MODULE	
2	1769-SDN	DEVICENET SCANNER FOR	
		1769 BUS	
3	1769-ECR	RIGHT END CAP/TERMINATOR	
3	1769-IF4	4 CHANNEL ANALOG CURRENT/	
		VOLTAGE INPUT MODULE	
1	1769-IR6	6 CHANNEL RTD/RESISTANCE	
		INPUT MODULE	
2	1769-IQ16	16 POINT 24 VDC SINKING/	
		SOURCING INPUT MODULE	
4	1769-OB16	16 POINT 24VDC SOURCING	
		OUTPUT MODULE	
2	1769-OF2	2 CHANNEL ANANLOG CRRENT/	
-		VOLTAGE OUTPUT MODULE	
2	1769-PA4	120/240V AC TNPT PWR SUPPLY	
_		4A @ 5V DC. 2A @ 24V DC	
2	1769-CRL1	1FT (305MM) RIGHT-TO-LEFT	
_		BUS EXPANSION CABLE	
1	1769-SM2	DST/MODBUS COMMUNICATIONS	
-		MODULE FOR POWERELEX DRIVES	
HMT Hardware			
1	2711P_R6C14	PANEL VTEW PLUS 600	
T	L7111-DUCIA	COLORKEV/TOUCH TEDMINIAL	
		ETHEDNET	
Not	e: Panelview 400 al	nd 600 terminals provide an low cost	

intgrated Ethernet solution to provide high performance capability at an affordable price.

	Drive Hardware
	PROGRAMMING CABLE
1 2711-NC13	5 METER RS232 OPERATING/

2 22D-DOION104 POWER FLEX 40P 5HP 480V AC DRIVE

2	1329L-KB0056	VN FDC AC VARIABLE SPEED
		AC MOTOR
2	845XXX	OPTICAL ENCODER
2	22 RJ45GBL-C20	DSI COMMUNICATION CABLE
	Ma	tion Hardware
1	2094-BC02-M02	MODULE INTEGRATED, 400/450V.
		15KW CONV. 15A INV.
3	2094-BMP5	MODULE, AXIS, 400/460V, 4A INV
1	2094-PR54	SLIM POWER RAIL, 230V OR 460V, 4 AXES
1	2090-XXLF-X330B	AC LINE FILTER, ROXBURGH MIF330
4	MPL-B310P-SJ22AA	MOTOR, SERVO, 1.58 NM, 5000RPM, SINGL, 460V, 3.0KG
4	2090-XXNPMP-1650	 CABLE,NON-FLEX,MOTOR POWER, MP/1326AB, 16 GAUGE, 3M
4	2090-XXNFMP-S03	CABLE, NON-FLEX, MOTOR FEEDBACK, MP/1326AB, 3M
Not	e: Catalog numbers con	sist of characters, each of which
ider	ntifies a specific version	n or option for that component.
Ref	erence Publication GMC	-SG002I-EN-E Kinetix Motion Control
Sele	ection Guide for additio	nal information
	01	her Hardware
1	1756-CP3	RS-232 CONFIGURATION CABLE
2	ENET SWITCH	ETHERNET SWITCH
1	1791ES-IBXOBV4	COMPACTBLOCK GUARD I/O
Not	e: It is recommended t	o use industrial switches.
	Opt	ional Hardware
1	6180W-15BPXPH	VERSAVIEW 15-INCH
		WORKSTATION, KEYPAD &
		TOUCH PERFORMANCE
		FEATURES, WINDOWS XP
		HMI SOFTWARE
1	1784-CF64	64MEG COMPACTFLASH CARD
1	1769-HSC	2/4 CHANNEL HIGH SPEED
		COUNTER/ENCODER MODULE
	Recom	mended Software
1	RLD250xxE*	RSLOGIX 5000 LITE, CONTAINS
		ALL LANGUAGES / RSLINX LITE
Not 500	r e: CompactLogix Contr 10 Lite, Standard, Full, d	ollers can be programmed using RSLogix or Pro.
1	9701-VWSTMENE	RSVIEW STUDIO FOR MACHINE EDITION
Not	e: You will need to pur	chase the RSView runtime in addition to
the	studio if you upgrade f	rom PanelView Plus to the VersaView PC.
1	9306-4EXP02ENE	DRIVE EXPLORER
1	9355-WABENE	RSLINX PROFESSIONAL -
		DATA MONITOR AND

DDE/OPC SUPPORT

For machine builders that are looking for a scalable 1 to 4 coordinated axis motion control solution the integrated CompactLogix & Kinetix Motion Control System is an ideal choice. Utilizing localized I/O modules to interface the machine to the controller and a standard EtherNet/IP network to connect your HMI. In addition, you have the ability to link the machine at the plant floor level to the business enterprise system, the Internet and co-exist with any commercially available Ethernet technologies.

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 / safety
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- · Easily handle your safety and control needs by using Compact GuardLogix for complete safety compliance

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- Low inertia, food grade, stainless steel, integrated gearmotors and linear actuators to handle a variety of applications and environmental challenges
- Simplify installation using the 2094 Line Interface Module (LIM) as the incoming power source for an entire control panel

PanelView Plus HMI

- Reuse tags from Logix controllers by choosing them from a list
- 4"-15" screen sizes available
- Touchscreen, keypad or combination
- Integrated EtherNet/IP and RS-232 communications (most modules), add-on communication for many other networks
- Advanced Operator Interface features such as trending, expressions, data logging, animation, diagnostics and alarming

PowerFlex Drives

- · Safe torgue off and advanced safety options for SIL 3 PL e requirements
- 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
- The PowerFlex 40P AC drive has the added capability to address needs for closed loop speed control and simple position control for applications like smart conveyors or indexing axes.

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative. • www.ab.com • A - Z Product Directory Publication Library samplecode.rockwellautomation.com

- My Support

About this Configuration

About the Products



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Qty	Catalog #	Description
	System	Controller Hardware
1	1768-L4x	COMPACTLOGIX L43 PROCESSOR,
		2 MEG MEMORY
		OR
1	1768-L4x5	COMPACTGUARDLOGIX
-		INTEGRATED CONTROLLER WITH
		2M STD AND 5M SAFETY
		MEMORY
Note:	Compactl pair 14x	and 14x5 have (1) serial part Using this
nort fo	r HMT does limit 1	the ability to connect a programming
termina	al to the I 4x and I	4x5 Consider moving the PV+ to Ethernet
usina tl	he 1768-FNBT	
1	1768-PA3	120/240 VAC INPT, PWR SUPPLY
Note:	1768-PA3 can po	ower (2) 1768 Modules
	(1) 1768-L43 Pro	ocessor (8) 1769 Modules
1	1768-ENBT	COMPACTLOGIX ETHERNET/IP
		COMM MODULE
1	1768-CNB	CONTROLNET BRIDGE MODULE
1	1769-OF2	2 CHANNEL ANALOG
		CURRENT/VOLTAGE OUTPUT MODULE
1	1769-IQ16F	16 POINT 24 VDC HIGH SPEED
	-	INPUT MODULE
2	1769-SDN	DEVICENET SCANNER FOR 1769 BUS
2	1769-ECR	RIGHT END CAP/TERMINATOR
3	1769-IF4	4 CHANNEL ANALOG CURRENT/
		VOLTAGE INPUT MODULE
1	1769-IR6	6 CHANNEL RTD/RESISTANCE
		INPUT MODULE
2	1769-IQ16	16 POINT 24 VDC SINKING
		/SOURCING INPUT MODULE
1	1769-OB16	16 POINT 24 VDC SOURCING
		OUTPUT MODULE
1	1769-OF2	2 CHANNEL ANALOG CURRENT/
		VOLTAGE OUTPUT MODULE
1	1769-PA4	120/240V AC INPUT PWR SUPPLY
	47/0 451/	4A @ 5V DC, 2A @ 24V DC
2	1769-CRL1	1FT (305MM) RIGHT-TO-LEFT
		BUS EXPANSION CABLE
	ł	-1MI Hardware
1	2711P-B6C1A	PANELVIEW PLUS 600 COLOR
		KEY/TOUCH TERMINAL, ETHERNET
Note:	Panelview 400 ar	nd 600 terminals provide a low cost
	integrated Ether	rnet solution to provide high performance
	capability at a a	ffordable price.
1	2/11-NC13	5 METER RS232 OPERATING/
		PROGRAMMING CABLE
	Distributed I	1/0 Hardware - FLEX I/O
1	1794-ACN15	ContorINet A
1	1794-PS3	POWER SUPPLY
1	1794-IB32	32PT. DC DIGITAL INPUT
1	1794-OB16P	16PT. PROTECTED DC OUTPUT
1	1794-IE12	12PT. ANALOG INPUT
		1794-OE12
1	1794-IRT8	THERMO/RTD
3	1794-TB3G	GROUND TERMINAL BASE
1	1794-TB32	TERMINAL BASE FOR 32 POINTS
1	1794-TBN	NEMA SCREW TERMINAL BASE
1	1794-TBNF	NEMA FUSED TERMINAL BASE
1	1794-TA8	8PT 120VAC INPUT
1	1794-OM8	8PT 22VAC OUTPUT

4-ADNT 4-FPD 4-IA2 4-OA2 4-IB85 4-OB85 4-TB 4-PS13 Distribut -EC1AB DA2P2A0AYY erFlex drives will need to in losure type. In	1734 DEVICENET/IP ADAPTER FIELD POTENTIAL DISTRIBUTOR 120V AC 2 CHANNEL INPUT MODULE 120/230V AC 2 CHANNEL OUTPUT MODULE 8 24V DC SAFETY INPUTS 8 24V DC SAFETY OUTPUTS MODULE BASE W/ REMOVABLE IEC SCREW TERMINALS 85-264V AC TO 24V DC 1.3A POWER SUPPLY ted Devicenet Devices E3 ELECTRONIC OVERLOAD RELAY, 100-C09 C23, 1-5A prive Hardware VADNN POWERFLEX 70 DRIVE - DEVICENET
4-FPD 4-IA2 4-OA2 4-IB8S 4-OB8S 4-OB8S 4-TB 4-PS13 Distribut -EC1AB DA2P2A0AYY erFlex drives will need to in losure type. In	FIELD POTENTIAL DISTRIBUTOR 120V AC 2 CHANNEL INPUT MODULE 120/230V AC 2 CHANNEL OUTPUT MODULE 8 24V DC SAFETY INPUTS 8 24V DC SAFETY OUTPUTS MODULE BASE W/ REMOVABLE IEC SCREW TERMINALS 85-264V AC TO 24V DC 1.3A POWER SUPPLY ted Devicenet Devices E3 ELECTRONIC OVERLOAD RELAY, 100-C09 C23, 1-5A prive Hardware VADNN POWERFLEX 70 DRIVE - DEVICENET
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erFlex drives will need to id losure type. It	DRIVE - DEVICENET
erriex arives will need to id losure type. Ir	
wiii neea to io losure type. Ir	come in many variations - Defore ordering
IOSUNE IVDE. IN	aentity voltage rating, norsepower, and
inment such	n addition, you may wish to add on optiona as HTM module on Brake Desister Please
er to the Pow	us FIIM Module of Blake Resister, Fleuse verElex Selection Guide for additional
ails on selecti	ing the right drive for your application
A-A1P5N114	POWERELEX 4 DRIVE
	INTERFACE
XVCOMM-DC	EXTERNAL DSI COMM KIT BASE
0.	ther Hardware
6-CP3	RS-232 CONFIGURATION CABLE
ET SWITCH	8-PORT ETHERNET SWITCH 8-PORT
s recommende agement capa	ed to use industrial switches with networl ability
Op [.]	tional Hardware
ОW-15ВРХРН	VERSAVIEW 15-TNCH
010 100 70 11	WORKSTATTON KEVPAD &
	TOUCH PERFORMANCE
	FEATURES WINDOWS XP
	HMI SOFTWARF
4-CE64	64MEG COMPACTEL ASH CARD
9-HSC	2/4 CHANNEL HIGH SPEED
	COUNTER/ENCODER MODULE
Recon	nmended Software
250xxF*	RSLOGTX 5000 LTTE CONTAINS
	ALL LANGUAGES / PSITNX LTTE
nactl oaix Co	introllers can be programmed using
.oaix 5000 Lit	te. Standard. Full. or Pro.
1-VWSTMENE	RSVIEW STUDIO FOR
	MACHINE EDITION
will need to p the studio if y	purchase the RSView runtime in addition you upgrade from PanelView Plus to the
saView PC.	
6-4EXP02ENE	E DRIVE EXPLORER
5-WABENE	RSLINX PROFESSIONAL
	DATA MONITOR AND
	DDE/OPC SUPPORT
	Op 0W-15BPXPH 4-CF64 9-HSC 250xxE* 250xxE* 250xxE* 25000 Li 1-VWSTMENE will need to saView PC. 6-4EXP02ENE 55-WABENE

About this Configuration

This Integrated Architecture system demonstrates the scalability of the integrated CompactLogix & Kinetix Motion Control System. This system utilizes a standard EtherNet/IP network for high speed I/O control, drive control and controller to controller interlocking as well as easy integration with the business system, the Internet and co-exist with any commercially available Ethernet technologies. This is an ideal solution for machines that require 1 to 8 axes of coordinated motion control. the ability to control additional, non-coordinated axes, and need to link the machines on the plant floor with the business enterprise system over 1 single network.

Logix Controllers

- Multiple control disciplines in a single controller sequential / motion / drives / process / safety
- and Sequential Function Chart
- and bridging to other networks enabling remote device configuration

Kinetix Servos

- · Safe torgue off and advanced safety options for SIL 3 PL e requirements
- 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
- High precision performance with over 2,000,000 count position feedback
- applications and environmental challenges
- control panel

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• Safe torgue off and advanced safety options for SIL 3 PL e requirements • 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 • Premier Integration in RSLogix 5000 v. 16 allows users to consolidate drive system configuration, operation and maintenance into a single, integrated environment

POINT I/O

- Available in IP-20 or IP-67 styles
- SIL 3 PL e safety modules can be used in any location alongside standard modules
- 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

FLEX I/O

- Densities from 4-32 points per module
- Screw, spring, Dshell, fused and knife disconnect terninals avaliable
- Mounts horizontally or vertically with no derating required
- · Supports EtherNet/IP, ControlNet, DeviceNet and 3rd party networks

For More Information and Help

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

About the Products

• A common set of controls, networks and programming software available in multiple hardware platforms • Multiple Program Languages available in all controllers - Ladder Diagram, Function Block, Structured Text,

• Embedded RS-232 port provides remote access as well as ASCII, DH-485, DF-1, Modbus Master/Slave • Tag-based architecture instead of addresses, provides automatic documentation native in the controller • Easily handle your safety and control needs by using Compact GuardLogix for complete safety compliance

• Low inertia, food grade, stainless steel, integrated gearmotors and linear actuators to handle a variety of

• Simplify installation using the 2094 Line Interface Module (LIM) as the incoming power source for an entire

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



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	 CompactLogix L45, L45S Control Configuration Any mix of 1768 SERCOS or network modules Any mix of 1769 discrete, analog or specialty I/O modules Up to 32 points per digital modules and 8 points per analog module 1769 I/O modules can be individually configured down to a 1 msec scan rate Up to 8 1769 I/O modules on the local rack and 30 modules total Up to 3 1769 I/O banks maximum 	
L45, minin or ead I/O t hroug ghput modu modu m per I/O t I/O t	L45S Performance Within the Local Chassis num I/O update rate for all I/O in the local chassis ch DeviceNet scanner or High Speed Counter module the screw to screw update (throughout) for local inputs h a 1K program is 10-12 msec can be accomplished by using the faster iles rformance can be achieved by individually setting the scan I/O module to maximize the efficiency of the controller modules on the local rack and 30 modules total banks maximum	В
	SERVO Capacity • 95-500V AC input voltage • 0.1-112 KW • 0.086-482 Nm torque (0.76-4266 lb-in) • Up to 7250 rpm • Up to 2,000,000 feedback resolution	
	SERVO Configuration • Compatible with Kinetix 2000, 6000 & 7000 and Ultra 3000 drive systems • Auxiliary feedback can be used for position control or master position input for camming and gearing • Utilizes high speed SERCOS interface • Built-in drive and motor configuration • Incremental and absolute feedback compatible motors • Motor environmental ratings from IP43-IP67K	
	 SERVO Performance 2 sets of 4 axis @ .5msec updte at 8MBaud High speed registration input on Kinetix drive can trigger a motion task in RSLogix 5000 for faster event task performance 	Α
]	

CompactLogix L45 Integrated Motion with EtherNet/IP Connectivity

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Qty	Catalog #	Description
	System	: Controller Hardware
Syste	m: Controller	Hardware
1	1768-L45	COMPACTLOGIX L43 PROCESSOR,
		3 MEG MEMORY
		OR
1	1768-L45S	COMPACTGUARDLOGIX
		INTEGRATED CONTROLLER WITH
		2M STD AND .5M SAFETY
		MEMORYY
Note:	Note: CompactLogix L45 and L455 have (1) serial port.	
	Using this port i	for HMI does limit the ability to connect
	a programming t	erminal to the L4. Consider moving the
	PV+ to Ethernet	usng the 1768-ENBT
2	1768-M04SE	COMPACTLOGIX SERCOS MODULE
1	1768-PA3	120/240 VAC INPT. PWR SUPPLY
Note:	1768-РАЗ сап ра	ower (4) 1768 modules
	(1) 1768-L45 Pro	ocessor (8) 1769 Modules
2	1768-ENBT	COMPACTLOGIX ETHERNET/IP
		COMM MODULE
1	1769-OF2	2 CHANNEL ANALOG CURRENT/
		VOLTAGE OUTPUT MODULE
1	1769-IQ16F	16 POINT 24 VDC HIGH SPEED
		INPUT MODULE
1	1769-ECR	RIGHT END CAP/TERMINATOR
	I	-1MI Hardware
1	2711P-B6C1A	PANELVIEW PLUS 600 COLOR
		KEY/TOUCH TERMINAL, ETHERNET
Note:	Panelview 400 and	d 600 terminals provide a low cost integrated
	Ethernet solutio	n to provide high performance capability
	at an affordable	e price.
1	2711-NC13	5 METER RS232 OPERATING/
		PROGRAMMING CABLE
	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
2	1734-IB85	8 24V DC SAFETY INPUTS
1	1734-OB8S	8 24V DC SAFETY OUTPUTS
2	1734-TB	MODULE BASE W/ REMOVABLE
		TEC SCREW TERMINALS
1	1794-PS13	85-264V AC TO 24V DC 1 3A
-	1/ / / / 010	POWER SUPPLY
	1	rive Hardware
1	20442024041	
T	LUNALFLAUAY	NDTVE - NEVICENET
Note:	PowerFlex drives	s come in many variations - before ordering
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	vou will need to	identify voltage rating horsenower and
	,	, , , , , , , , , , , , , , , , , , ,

equipment, such as HIM module or Brake Resister. Please refer to the PowerFlex Selection Guide for additional details on selecting the right drive for you application.

	M	otion H	lardware	
1	2094-BC02-M02 MODULE 400/460		LE, INTEGRATED,	
			00V, 15KW CONV. 15A INV.	
7	2094-BMP5	MODU	_E, AXIS, 400/460V, 4A INV.	
1	2094-PR58	SLIM F 8 AXES	POWER RAIL, 230V OR 460V,	
1	2090-XXLF-X33	OB	AC LINE FILTER, ROXBURGH MIF330	
8	MPL-B310P-SJ22AA		MOTOR, SERVO, 1.58 NM, 5000RPM, SINGL,460V, 3.0KG	
8	2090-XXNPMP-16503		CABLE, NON-FLEX, MOTOR POWER,MP/1326AB,16 GAUGE,3M	
8	2090-XXNFMP-503		CABLE, NON-FLEX, MOTOR FEEDBACK, MP/1326AB, 3M	
Note:	Catalog numbers consist of characters, each of which			
	identifies a specific version or option for that componen			
	Reference Publication GMC-SG002I-EN-E Kinetix Motion			
	Control Selection Guide for additional information			
		ther H	ardware	
1	1/56-CP3	RS-232		
1	ENELSWITCH	8-POR I	8-PORT	
1	1791ES-IBXOBV4 COMPACTBLOCK GUARD I/O			
Note:	It is recommended to use industrial switches with network management capability.			
	Ор	tional l	lardware	
1	6180W-15BPXPH	VERSA	VIEW 15-INCH	
	WORKS TOUCH FEATUR		STATION, KEYPAD &	
			H PERFORMANCE	
			IRES, WINDOWS XP	
	1704 48/4	HMI S	OFTWARE	
1	1/84-CF64	64MEG COMPACIFLASH CARD		
2	1/69-SUN DEVICE		ENET SCANNER FOR	
	17/0 1/00	1/69 B		
1	1769-HSC	2/4 CF	TANNEL HIGH SPEED	
	Deeer		Coftware	
1	NLD2E0C*	nmenae	a Sottware	
1	RLD250XXE"	ALL LA	INGUAGES / RSLINX LITE	
Note:	CompactLogix Controllers c		can be programmed using	
	RSLogix 5000 Lite, Standard, Full, or Pro.			
1	9701-VWSTMENE RSVIEW STUDIO FOR MACHINE EDITION			
Note:	You will need to purchase the RSView runtime in addition			
	to the studio if you upgrade from PanelView Plus to the VersaView PC.			
1	9306-4EXP02	ENE I	DRIVE EXPLORER	
1	9355-WABEN	IE I	RSLINX PROFESSIONAL -	
		[DATA MONITOR AND	
		1	NE/OPC SUPPORT	

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- · My Support

enclosure type. In addition, you may wish to add on optional

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