

Novinky Integrated Architecture

Roman Foukal Commercial Engineer A&S 8.-9.9.2015







Allen-Bradley • Rockwell Software



Rockwell Automation

Integrated Architecture Value

New Product Update

On-Machine Portfolio

Studio 5000[®]

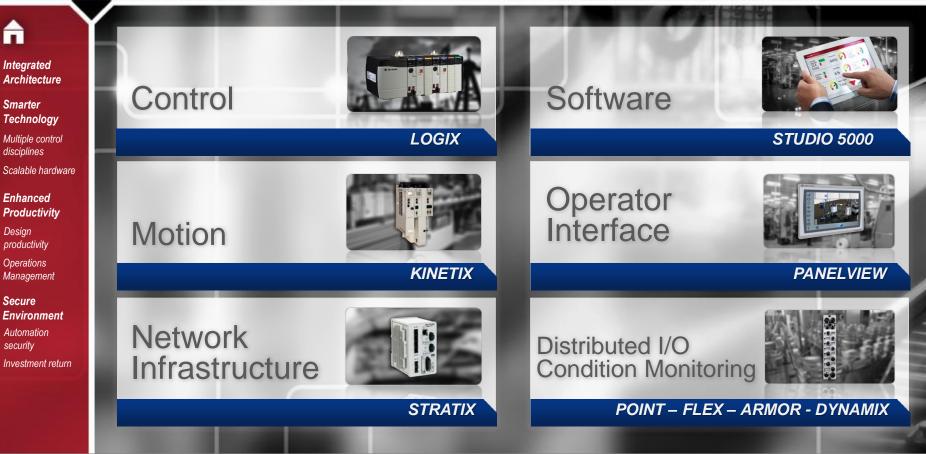
Lifecycle Update



Integrated Architecture Portfolio

Rockwell Automation

Allen-Bradley - Rockwell Software



Visualization

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MobileView[™] Tethered Operator Interface Available today

Rockwell Automation



5m, 10m, 15m cable with "quick connect" connector

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PanelView Plus 7 Standard and Performance Operator Interface

More Screen Options... Greater Resolutions... Additional Certifications...

- New Displays:
 - Increased screen resolution
 - Wide screen options
 - Additional sizes from 4" to 19"
- Certifications:

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- ATEX
- INMetro, EAC Release 2
- Marine (Future Performance models)
- IP66, IP54, NEMA 12, NEMA 13 and NEMA 4X



Standard version - currently available

Performance version - coming soon

Rockwell Automation

PanelView[™] 5000 Operator Interface

- HMI platform for extended Logix integrated solutions using Studio 5000 View Designer[™] software
 - Intuitive, modern design:
 - Display options: 7", 9"W, 10", 12"W, 15", 19"
 - Widescreen, Touch and Keypad options
 - Increased productivity from design-time to run-time
 - Pre-configured system banner
 - Navigation button

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Enhanced Integration with Logix





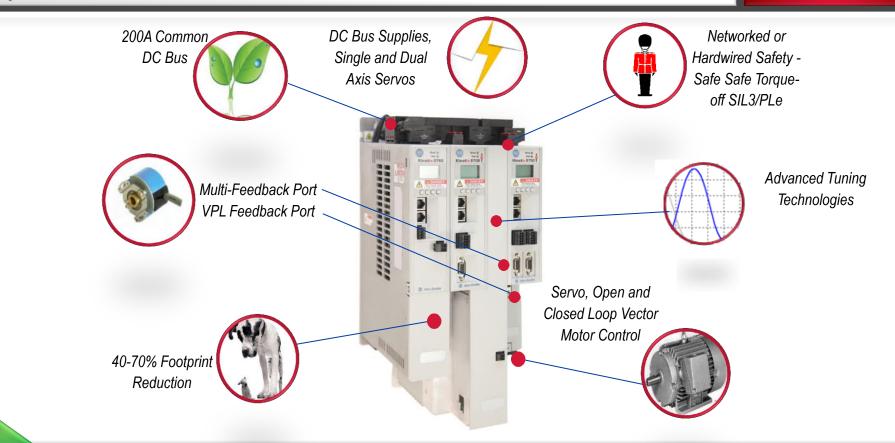




Kinetix Motion Update

Kinetix® 5700 Servo Drives System Features

Rockwell Automation



Kinetix® VP Motors

Rockwell Automation

VPF Food Grade Motor

PUBLIC

- Designed to meet the unique needs of many food and beverage applications
- Six frame sizes from 63 mm to 165 mm
 - Continuous torque range of.93-19.4 Nm
- Durable food grade white paint with premium adhesion



VPL Servo Motor

- Windings optimized to match drive ratings allowing for efficient system sizing
- Digital feedback device provides real-time motor performance information to the control system
- Single cable provides feedback, motor brake and motor power simplifying wiring and reducing inventory



ITRAK[®] System

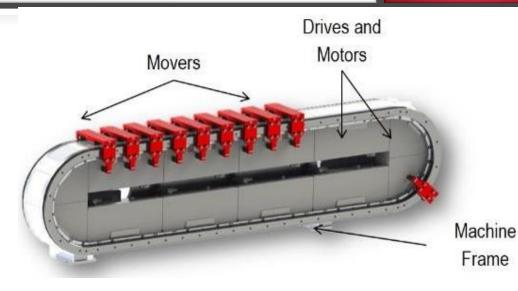
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Integrated Architecture Provides

- Synchronizes with Kinetix
- One design environment Studio 5000[®]

Mechanical Standardization Provides

- Greater design flexibility
- Higher value machine



Increase Production

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- High speeds up to 5 ms
- High acceleration up to 10g
- Quick product changeover

Lower Maintenance Time

- No moving cables
- Built in lubrication system
- No belts or chains to tension

Reduce Space

- High-power density
- Reduced mechanics
- Integral part of machine frame

Networks Infrastructure Update

Stratix 5400 Industrial Switch

Rockwell Automation

Enhanced Switching and Routing

- All gig port options for high performance resilient requirements
- Layer 3 routing capability for segmented network and plant to enterprise integration

Simplified Setup & Maintenance

- Default automation configurations
- Optimized "Smartport " configurations
- DHCP per port device IP addressing
- SD card for easy device replacement



Advanced Networking Features

- Power over Ethernet (PoE) for simplified end device wiring
- Network Address Translation (NAT) reduces commissioning time
- Enhanced security options

Optimized Integration

- Embedded Cisco technology provides integration with enterprise network
- Predefined Logix 5000® tags
- Studio 5000® Add-on Profiles (AOPs) for configuration and monitoring

1783-NATR Device

Ease of set-up and deployment

- Delivers standard machines without unique IP addresses
- Mapping of machine-subnet addresses to end users' addresses
- Dual port Ethernet for Linear or Device Level Ring (DLR) topologies

Simplified Device Configuration

- SD card for configuration backup
- Web page and/or Add-on Profile (AOP)
- High performance capabilities

PUBLIC

- Up to 32 network address mappings
- 10/100MB rates for Ethernet ports

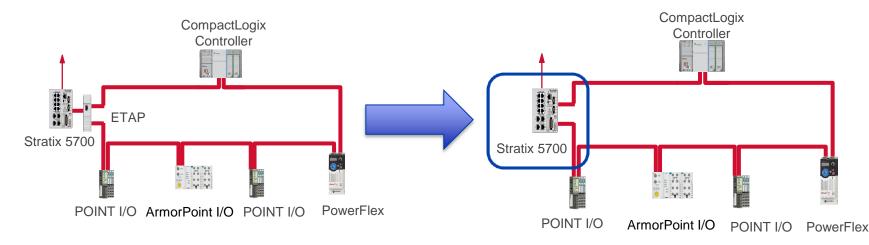


Compliance with IEEE 802.3 and ODVA EtherNet standards



Stratix 5700 with DLR

- Direct DLR connection to Stratix 5700
 - Firmware upgrade (152-3.EA1.fc2) on selective hardware versions
- Eliminates the need for an ETAP
- Can be configured as a node or supervisor
- Provides consolidated (in the switch) network status and diagnostics



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Ethernet to DeviceNet Linking Device

Certifications

IP67-rated version of 1788-EN2DNR

Networking

PUBLIC

- DeviceNet standard and safety
- Dual Ethernet port for Device Level Ring and Linear topologies

Standardized M12 Connector

 Provides field connections for quick installation

EtherNet/IP

IP Address Setting

Rotary switches



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CompactLogix® Controller Update

1769-L19ER-BB1B

Rockwell Automation



1769-L19ER-BB1B

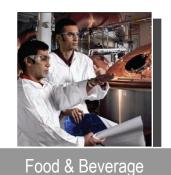
- All the capability of 1769-L18ER-BB1B
- With **1MB** user memory
- Embedded I/O: 16DI +16DO

Perfect fit for applications that require low I/O count but more user memory requirements, such as process skid control



Oil & Gas

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Automotive



Life Sciences

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5370 Compact GuardLogix® Controllers



1002 Architecture

SIL3 (IEC61508)

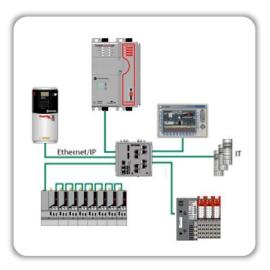
PLe (ISO13849)

3 Catalog numbers

- 1769-L30ERMS (1.0 M standard +0.5 M Safety memory, 4 Axis of Integrated Motion on the EtherNet/IP network)
- 1769-L33ERMS (2.0 M standard +1.0 M Safety memory, 8 Axis of Integrated Motion on the EtherNet/IP network)
- 1769-L36ERMS (3.0 M standard +1.5 M Safety memory, 16 Axis of Integrated Motion on the EtherNet/IP network)

Compact GuardLogix®

- High performance-integrated safety
- Standard, Safety and Motion control
- CIP safety on the EtherNet/IP network
- Superior ease-of-use for SIL2, SIL3, PLe safety functions
- High Integrity Add-On Instruction



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Automation

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ControlLogix® Update

Armor[™] GuardLogix[®] Armor[™] ControlLogix 5570

Armor ControlLogix and Armor GuardLogix

 Standard and safety On-Machine control up to SIL
 3, PLe in an IP67-rated housing for dust and wash-down protection in harsher environments





Status indicators

PUBLIC

 Four indicators provide immediate status about the controller's health





Networks

 Two independent Ethernet network connectors provide network flexibility

Rockwell Automation

 Dual ports allow Device Level Ring topology

Secure Digital (SD) card

 Nonvolatile memory permanently stores user programs and tag data

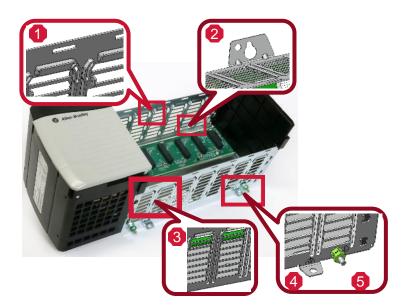
Power Supply

Enables power for each device

USB Port

 High performance and speed for easier programming

ControlLogix Chassis Series Update



Series C Chassis now available

- 1. Improved card guide for easier module slot location and insertion.
- 2. Additional mounting hole for high shock/vibration environments.
- 3. Improved ventilation for future high performance modules.
- 4. Improved, stiffer mounting tab.
- 5. Additional ground screw added as required for some applications.

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Redundancy Firmware Releases

- Firmware revision V20.055_kit5
 - Adds 1756-EN2F Series C Support
- Firmware revisions V16.081_kit5 and V19.053_kit3
 - Adds support for updated CNET/ENET communication module FW
- Firmware revision V20.056
 - Addresses select anomalies

- Firmware revision V24.5 (NEW MAJOR REVISION!)
 - Adds ability to utilize V24 feature set in a redundant system











ArmorBlock[®] Guard I/O[™]

Rockwell Automation

EtherNet/IP

- Supports multi-cast and unicast for user flexibility
- Dual Ethernet port for Device Level Ring and Linear topologies

Status Indicators

 Network, Link, I/O and Power indicators provide immediate status about module health

Certifications

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- IP67-rated package for use on machine
- CE, C-Tick, KCC markings
- TUV certified up to Category 4, SIL 3, PLe

Standardized M12 Connector

 Provides field connections for quick installation

IP Address Setting

- Rotary switches
- Supports DHCP

EtherNet/IP

Condition Monitoring Update

Dynamix[™] 1444 Series Integrated Condition Monitoring

Machine Protection & Condition Monitoring

- Vibration
 - Acceleration
 - Velocity
 - Displacement
 - Absolute Shaft Vibration
 - Spike Energy (gSE)
- Speed
- Pressure
- Thrust
- Case Expansion
- Differential Expansion
- Rod Drop

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EtherNet/IP

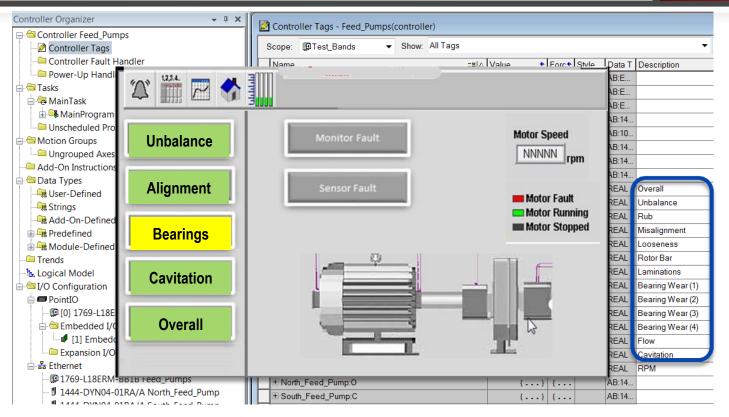
Dual Ethernet port for linear and Device Level Ring

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Studio 5000 Logix Integration

Rockwell Automation



On-Machine Update

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Comprehensive On-Machine[™] Solution

- Expanded portfolio now includes:
- Programmable Controllers
- Ethernet Switches
- Connection Systems and Network Media
- Distributed I/O
- Sensors, Switches, Push Buttons and Signaling
- Power Supplies
- Distributed Motor Control
- Basic Motion
- Safety

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New on-machine products available today

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Studio 5000® Update

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Studio 5000® Software This Year

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Studio 5000 Software

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• Studio 5000 V24 (Oct '14)

• Automation Productivity Release





What are we doing V

- Logical Organizer
- Library Management
- Modular Code Features
- Compare & Merge

Why are we doing it

- Design efficiency
- Automation productivity

• Studio 5000 V26 (April '15)





K5700 Support Content protection

- Support new motion products
- System security

- Studio 5000 V20.04 SW (Q3CY15)
- Firmware re-roll
 (Q3/Q4 CY15)



- Resolves minor revision workflow break
- To restore expected behavior

Studio 5000 Software

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Product		W	What are we doing		Why are we doing it	
•	Studio 5000 V27 (Q3CY15)		System Architect View Designer (supporting PV5000) Application Code Manager Compare and Merge enhancements	• • •	Studio 5000® Integrated Design Environment Support PV5000 launch New library management tools Expanded collaboration tools	
•	Studio 5000 V28 (Q4CY15)	•	New Hardware Support Security Features Sequence Manager PlantPAx® Object Configuration	•	New hardware support System security Better support for Process applications	
•	Studio 5000 V24.5 (Q4CY15)	2	Redundancy for V24	•	Better support for Process applications	

Lifecycle Update

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Rockwell Automation New Product Lifecycle Stages

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Active - The most current product offering within a category of product

Active Mature - Products fully supported and available, but a newer family within the product category is available. Can realize benefits from migrating to a newer family.

End of Life - A product discontinued date has been announced. Actively execute migrations and/or last-time buys.

Discontinued - New product is no longer available. Repair/exchange services may still be available.

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_ifecycle Status	Data A	Availab	le C)n-line
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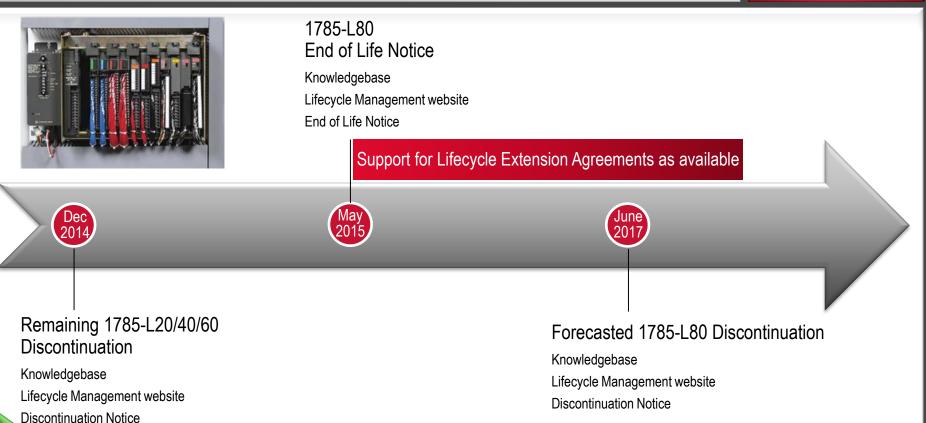
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Automation us	EN, THINK, SOLV	E'	Search	٩.
Products & Technologies 🕨	Solutions & Servic	es > News & Innovation > Training & Events >	Sales & Partners +	Support About Us
Hame + Solutions & Services + C	apabilities + Migration:	Solutions + Product Lifecycle Results		
Product	Lifec	ycle Status		
Capabilities O Search Results				
Migration Solutions	PRODUCT ID	PRODUCT DESCRIPTION	LIFECYCLE STATUS	DISCONTINUED DATE
Overview Why Rockwell Automation?	1785-ACC5LA	PLC-5 ACCESSORY KIT	ACTIVE MATURE	
 Lifecycle Extension & Migrations 	1785-ADC5LB	PLC-5 ACCESSORY KIT	ACTIVE MATURE	
Product Lifecycle Status	1785-BCM	PLC-5 BACKUP COMMUNICATION MODULE	DISCONTINUED	07/31/2011
Literature & Media	1785-BEM	PLC-5 BACK-UP COMMUNICATION EXP MODULE	DISCONTINUED	07/31/2011
+ Migration Solutions Brochure	1785-CH0RAD	REMOTE ACCESS MODEM KIT FOR CONN TO	END OF LIFE	10/31/2016
(PDF) Installed Base Evaluation	1785-CHBM	PLC-5 CONTROLNET BACKUP CARTRIDGE	DISCONTINUED	12/31/2012
Animated Video	1785-KA	DH / DH+ COMMUNICATION ADAPTOR MODULE	DISCONTINUED	
	1785-KA3	DHPLUS PLC-2 INTEC	DISCONTINUED	01/30/2010
	1785-KE	INTERFACE MODULE	DISCONTINUED	
	1785-L11B	PLC-5 PROCESSOR	DISCONTINUED	12/31/2012
	1785-L208	PLC-5 PROCESSOR	END OF LIFE	12/31/2014
	1785-L20C	PLC-5 CONTROLNET PROCESSOR		12/31/2009
	1785-L20C15	PLC-5 CONTROLNET 1.5 PROCESSOR	DISCONTINUED	12/31/2012
	1785-L20E	PLC-5 ETHERNET PROCESSOR	END OF LIFE	12/31/2014
	1785-L268	PLC-5 PROTECTED PROCESSOR	DISCONTINUED	12/31/2013

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IC 5* and 1771 VO Modules	
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PLC-5[®] Lifecycle Communications



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Logix 5560 - Lifecycle Status

Rockwell Automation

The ControlLogix[™] 5560 and 5560S controllers are entering End of Life and will be discontinued on December 31, 2016

- Technical support remains (Tech Connect)
- Field service and on-site support continues •
- Repair services continue
- Simply no longer available to be sold as new





- 2x faster scan time
- SD Card versus CF Card
- USB versus RS-232
- Onboard Display
- No-Battery Required
 >15% lower list price

New projects should be using the ControlLogix[™] 5570

Product Lifecycle Status CompactLogix[™]

Rockwell Automation

Catalog ID	Description	Discontinue Date
1769-L23E-QB1B	CompactLogix [™] 512KB DI/O Controller	30-Jun-16
1769-L23-QBFC1B	CompactLogix™ 512KB DI/O AI/O Controller	30-Jun-16
1769-L23E-QBFC1B	CompactLogix™ 512KB DI/O AI/O Controller	30-Jun-16
1769-L31	CompactLogix™ 512KB Controller	31-Dec-15
1769-L32C	CompactLogix [™] 750KB ControlNet Controller	30-Jun-16
1769-L35CR	CompactLogix [™] 1.5MB ControlNet Controller	30-Jun-16
1769-ADN	CompactLogix [™] DeviceNet Adaptor Module	31-Dec-15





Dotazy? Děkuji za pozornost!



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