

Dny nové techniky

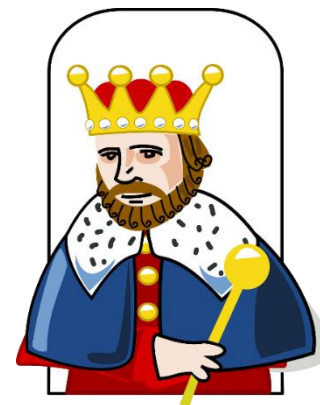
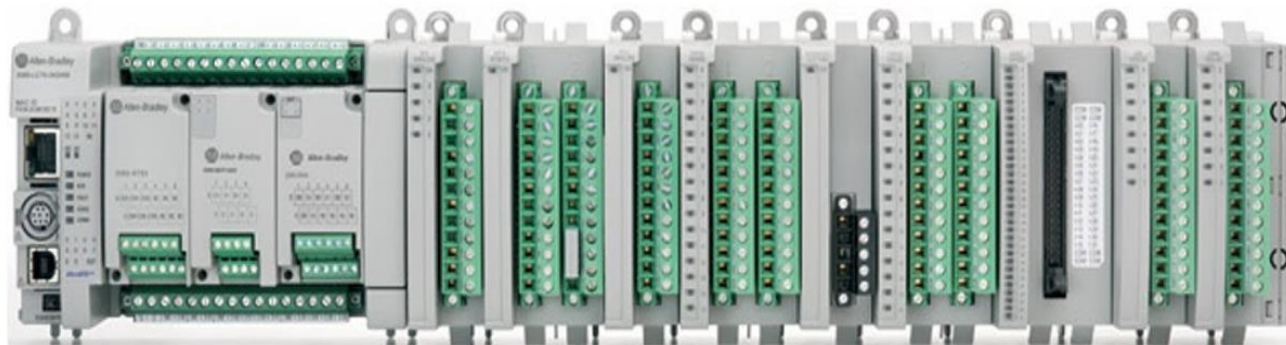
2018

Petr Mikšovský

Obsah

Micro 870
CompactLogix 5480
Compact GuardLogix 5380
GuardLogix 5580
Studio5000 V31
FLEX 5000™ I/O
1756-EN2TP
ControlLogix Compute Module
Kompatibilita
Ethernet/IP Capacity Tool (Next Gen)
1734-POINT I/O

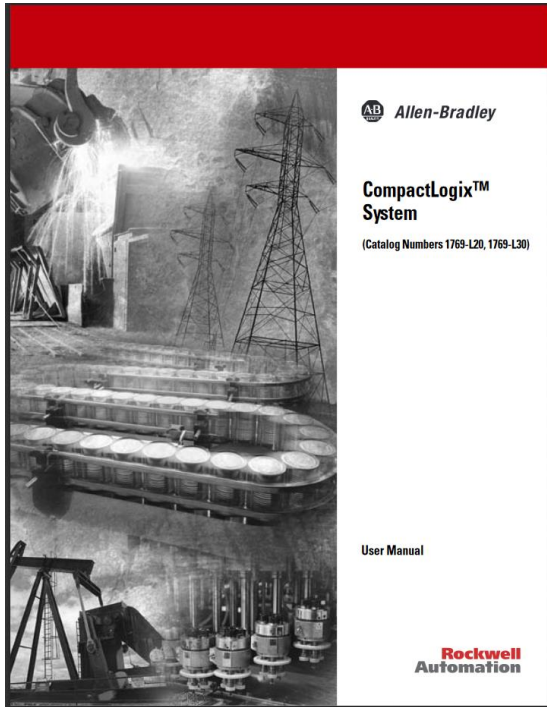
Micro 870



Proč je nové Micro 870 králem malých řídicích systémů ?



Micro 870



První CompactLogixy na světě

1769-L20 64kB - 1x RS232
1769-L30 256kB - 2x RS232

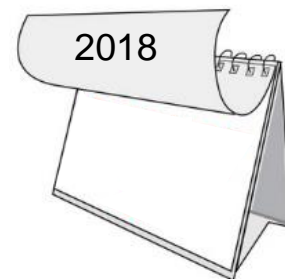
Zápis programu : pouze ladder diagram
Vytváření vlastních instrukcí : Ne
Vývojový software zdarma : Ne
Ethernet komunikace : Ne
USB komunikace : Ne



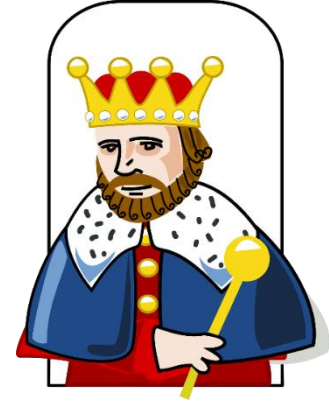
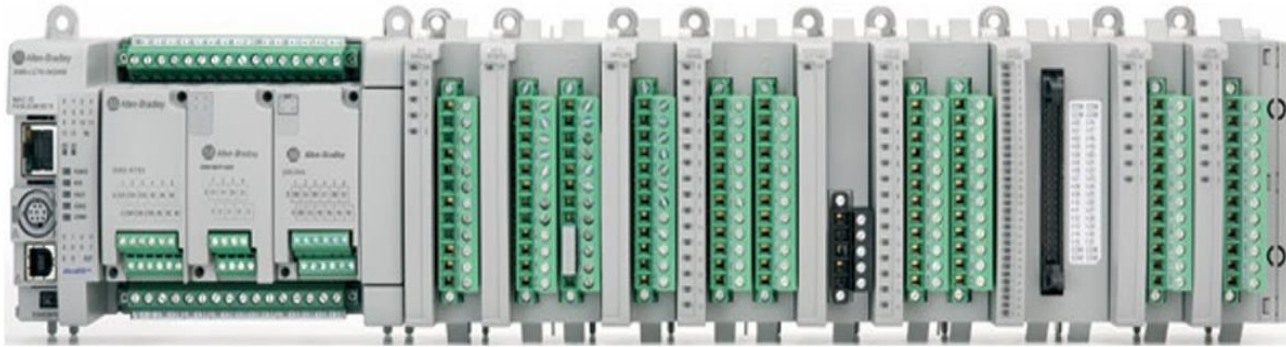
Micro 870



Kat.č	Vstupy	Výstupy		polohování	HSC – rychlé čítače 100kHz
	24V DC	Relé	24V DC		
2080-LC70-24QWB	14	10	-		4 (2 vodiče) 2 (4 vodiče)
2080-LC70-24QBB	14	-	10	2 PTO	4 (2 vodiče) 2 (4 vodiče)
Specifikace					
Programovací port	USB 2.0				
Ethernet Port	Ethernet/IP Class 3 , ModbusTCP (10/100Mbps)				
Max. počet Plug-in modulů	3				
Rozšiřující moduly	až 8 modulů řady 2085				
Rozměry (v x š x h)	90 x 145 x 80mm				
Aplikační program	až 20000 kroků				
Data	až 280kB				
Programovací jazyky IEC 61131-3	Ladder diagram, Funkční bloky, Strukturovaný text				
Uživatelsky definované funkce	Ano				
Aritmetické operace s plovoucí čárkou	32 bitů a 64 bitů				
PID regulace	ano				
Vestavěný sériový port – podporové protokoly	RS232/485 Modbus RTU Maste/Slave, ASCII, CIP				
Provozní teplota	-20...65 °C				



Micro 870



Uživatelsky definované funkční bloky



Vývojový software zdarma

Micro 870 - Uživatelsky definované funkční bloky

The screenshot shows the Rockwell Automation website's search results page. The browser address bar shows the URL: `search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode`. The page header includes the Rockwell Automation logo and navigation links for Industries, Capabilities, Products, News, Events, Sales & Partners, and Support. Below the header, there is a search bar with the text 'Sample Code' and a 'Submit Code' button. The search results are displayed in a table format, with a 'FILTER BY:' sidebar on the right. The first result is for 'Micro800 UDFB: Sets the Micro800 Real Time Clock (RTC) on an Exception Basis'. The second result is for 'Micro800 PowerFlex750 UDFB's'. The sidebar on the right shows filters for Keyword, RA Preferred Code, Product Family, and Industries. A vertical banner on the right edge of the page reads 'Help Improve Our Site'.

Rockwell Automation

Industries Capabilities Products News Events Sales & Partners Support

Sample Code Submit Code Help

Sort 1 of 15

Micro800 UDFB: Sets the Micro800 Real Time Clock (RTC) on an Exception Basis

RA_RTC_SET UDFB that takes an input variable, which can be periodically updated by a PV800 terminal system clock, to set the controller RTC.

Rating: ★★★★★ (Read Reviews)

Preferred Code: No

Date: June 2015

Downloads: 974

>> Additional Information

Micro800 PowerFlex750 UDFB's

UDFB's for simple or complete control of PF750 with Micro800 on Ethernet/IP. UDFB's to read or write parameters in the PF750 with Micro800 on Ethernet/IP. Both using either the embedded Ethernet/IP port or a 20-750-ENETR expansion card of the PF750. Not functional when using a 20-COMM-E + 20-750-20COMM.

Rating: Not Specified (Write a Review)

Preferred Code: No

Date: February 2014

Downloads: 1171

>> Additional Information

micro800

Keyword

Keyword (e.g. ControlLogix)

RA Preferred Code

Select a RA Preferred Code

Product Family

Select a Product Family

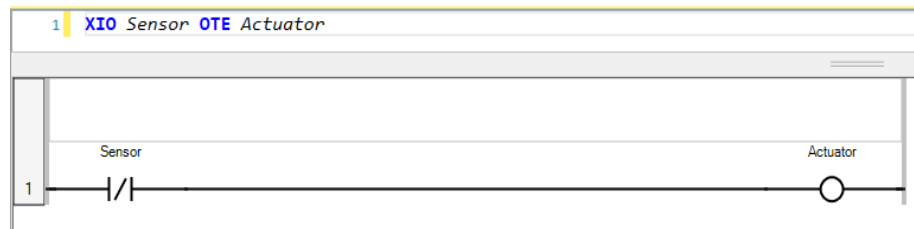
Industries

Select a Industries

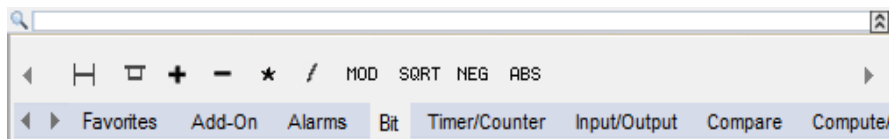
Help Improve Our Site

Micro 870 – CCW ver.11

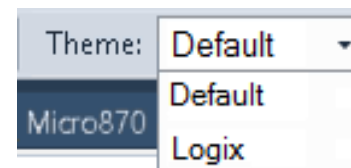
Možnost psaní programu pomocí „ASCII Textu“ obdobně jako v RSLogixu



Přidaná lišta(Toolbar) s instrukcemi obdobně jako v RSLogixu



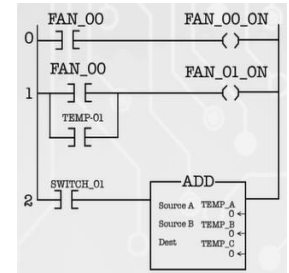
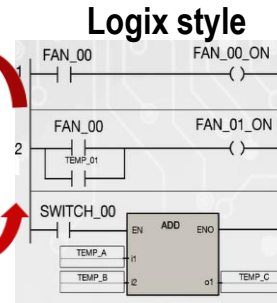
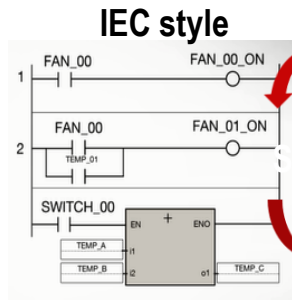
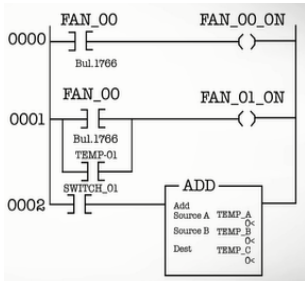
Přepínání vzhledu Ladder editoru



Micro 870 – CCW ver.11

RSLogix™ 500
Software

**Connected
Components
Workbench™**
Software



Copy/Paste

Copy/Past

**Converter
Tool**



Jen 8 modulů ?!



Micro 870 : 2085 - Spectrum Controls moduly



Katalogové číslo	Popis
2085sc-IF8U	8 univerzálních analogových vstupů Proud: 0..20mA , 4..20mA Napětí: $\pm 50\text{mV}$, $\pm 100\text{mV}$ 0 -5 V, 0 – 10 V, $\pm 10\text{V}$ RTD: 100 Ω , 200 Ω , 500 Ω , and 1000 Ω Pt385 & Pt3916, 120 Ω Ni618 , Ni672,10 Ω Cu 426, 604 Ω NiFe 518 Odpor : 0-150 Ω , 0-500 Ω , 0-1000 Ω , 0-3000 Ω Termočlánek : typ J, N, T, K, E, S, R, C, B Rozlišení 16 bitů
2085sc-OF8	8 analogových výstupů Proud : 0 mA - 20 mA, 4 mA - 20 mA Napětí : 0 V to +5 V, 0 V to +10 V, $\pm 10\text{V}$ Rozlišení 16 bitů
2085sc-IF16V	16 analogových vstupů Napětí : 0 -5 V, 0 – 10 V, $\pm 10\text{V}$ Rozlišení: 16 bitů
2085sc-IF16C	16 analogových vstupů- Proud : 0 mA - 20 mA, 4 mA - 20 mA Rozlišení: 16 bitů
2085-IF4XOF4-SC	4 analogové vstupy a 4 analogové výstupy Proud : 0 mA - 20 mA, 4 mA - 20 mA Napětí : 0 V to +5 V, 0 V to +10 V, $\pm 10\text{V}$ Rozlišení : 16 bitů
2085-OB32-SC	32 digitálních výstupů 24V DC společné mínus

Micro 870

2085-IM8 : vstupní modul 8x 230VAC

2085-OA8 : výstupní modul 8x 120/230VAC



Micro 870

„Noname“



Allen-Bradley



Cenově dostupné řešení nemusí být „Noname“.

Micro 870

Výkonnost / Paměť

Micro850



Micro870



**MicroLogix
1400**



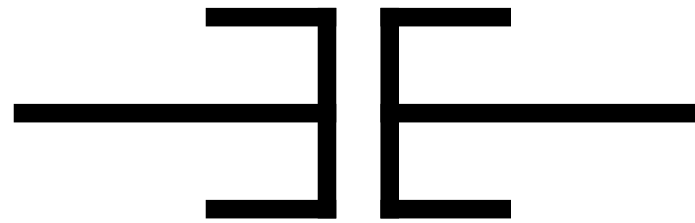
**CompactLogix™
5370 L1**



Cena

Micro 870

XIC instrukce



Micro 870

0.3 μ S

MicroLogix 1400

0.27 μ S

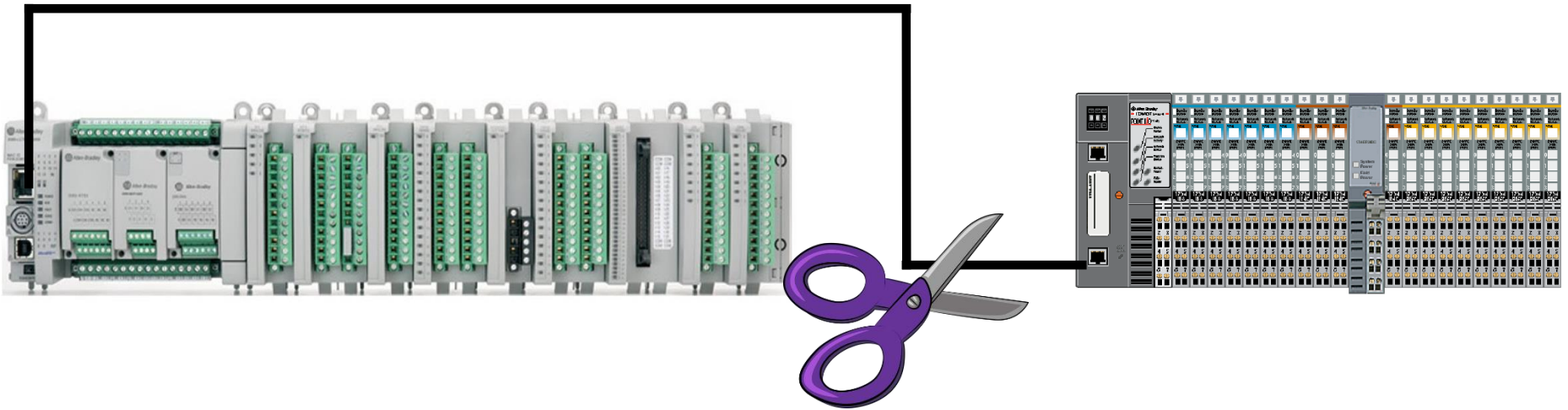
1769-L1x

0.02 μ S



Micro 870

Co znamená Ethernet/IP Class 3 ?



Nelze připojit vzdálené vstupy/výstupy v síti Ethernet/IP.

Je ještě něco nového v CCW 11 ?



PanelView 800

FTP Server - Read only (pouze čtení)

- Historie alarmů
- Datalogger
- Receptury

CCW 11

Settings X Screens: 1 - Screen_1 Kinetix 3_1* PowerFlex 4M_1* SMC Flex_1*

2711R-T4T
PV800_App1

Download Upload Validate Generate Report Secure

Graphic Terminal - General

Validity: False

Version: 5.011

Communication
User Accounts
Languages
Advanced
FTP
Email

FTP
FTP Accessibility Settings

For security reason, all functions are not visible in FTP by default.

Alarm History:

Datalog:

Recipe:

Kdo se má v těch CompactLogixech vyznat.
Mimochodem objeví se letos nějaké nové modely ?



CompactLogix přehled



RS232

USB

1Gb/s USB

	RS232		USB			1Gb/s USB	
1794-L33 1794-L34 1769-L20 1769-L30 1769-L31 1769-L32C 1769-L35CR	1768-L43	1769-L32E	1769-L16ER-BB1B	1769-L24ER-QB1B	1769-L30ER	5069-L306ER	5069-L306ERMS2
	1768-L43S	1769-L35E	1769-L18ER-BB1B	1769-L24ER-QBFC1B	1769-L30ERM	5069-L306ERM	5069-L306ERS2
	1768-L45		1769-L18ERM-BB1B	1769-L27ERM-QBFC1B	1769-L30ERMS	5069-L3100ERM	5069-L310ERMS2
	1768-L45S		1769-L19ER-BB1B		1769-L33ER	5069-L310ER	5069-L310ERS2
					1769-L33ERM	5069-L310ERM	5069-L320ERMS2
					1769-L33ERMS	5069-L320ER	5069-L320ERS2
					1769-L36ERM	5069-L320ERM	5069-L330ERMS2
	E-Ethernet				1769-L36ERMOS	5069-L330ER	5069-L330ERS2
	R-Redundant port				1769-L36ERMS	5069-L330ERM	5069-L340ERMS2
	M-Motion				1769-L37ERMO	5069-L340ER	5069-L340ERS2
	S-Safety				1769-L37ERMOS	5069-L340ERM	5069-L350ERMS2
	O-armOr					5069-L350ERM	5069-L350ERS2
						5069-L380ERM	5069-L380ERMS2
						5069-L3100ERM	5069-L380ERS2
							5069-L3100ERMS2
					5069-L46ERMW	5069-L3100ERS2	

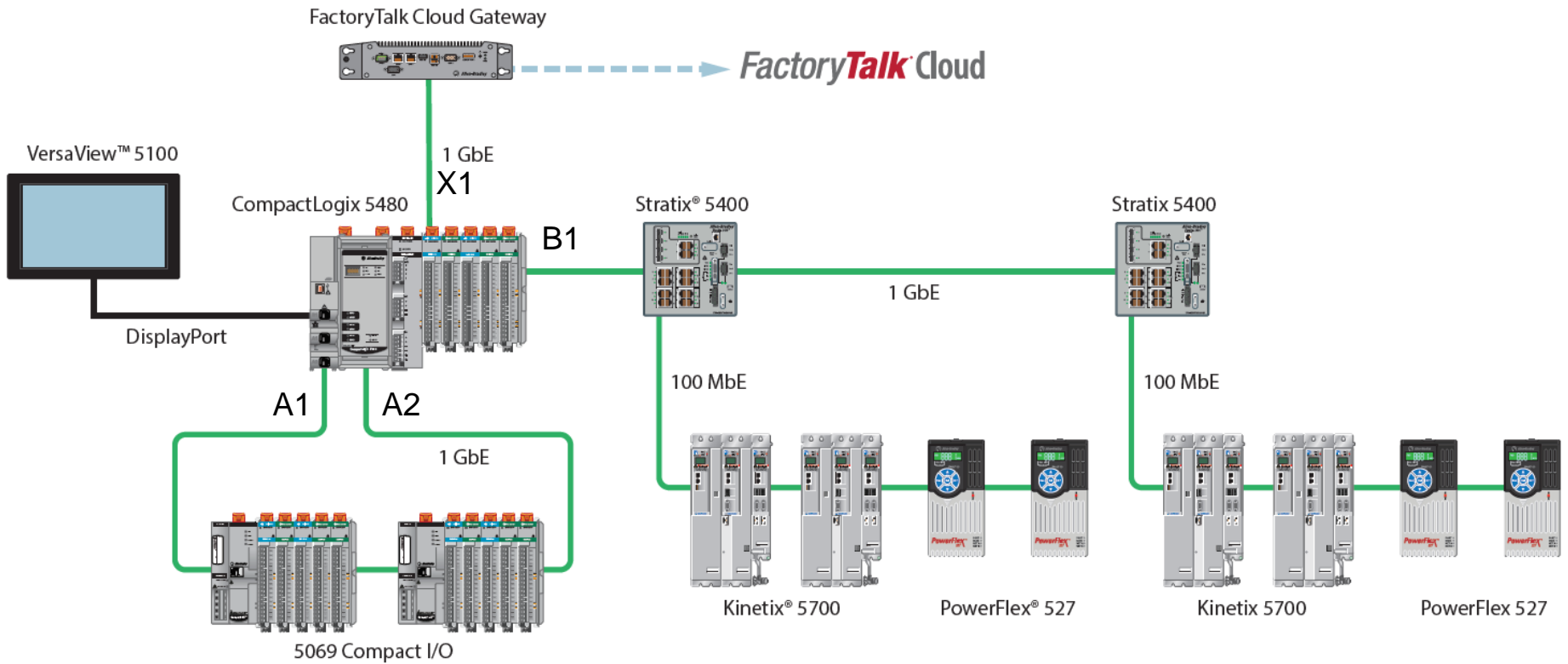
Novinka

CompactLogix 5480



Operační systém	Windows 10 IoT Enterprise
procesor	Intel i7 2.4GHz
SDRAM	5.75GB (Windows)
Úložiště	32GB eMMC , 16GB neobsazeno
GbE porty	3x Logix, 1x OS
Připojení monitoru	1x DisplayPort
USB porty	1x Logix, 2x OS (USB 3.0)

CompactLogix 5480



CompactLogix 5480

B1 - 1GbE, podpora vstupů/výstupů , polohování, pohony atd. Dovoluje Domain Name, primární a sekundární DNS atributy. „Vazba na nadřazenou síť/ řídicí systém

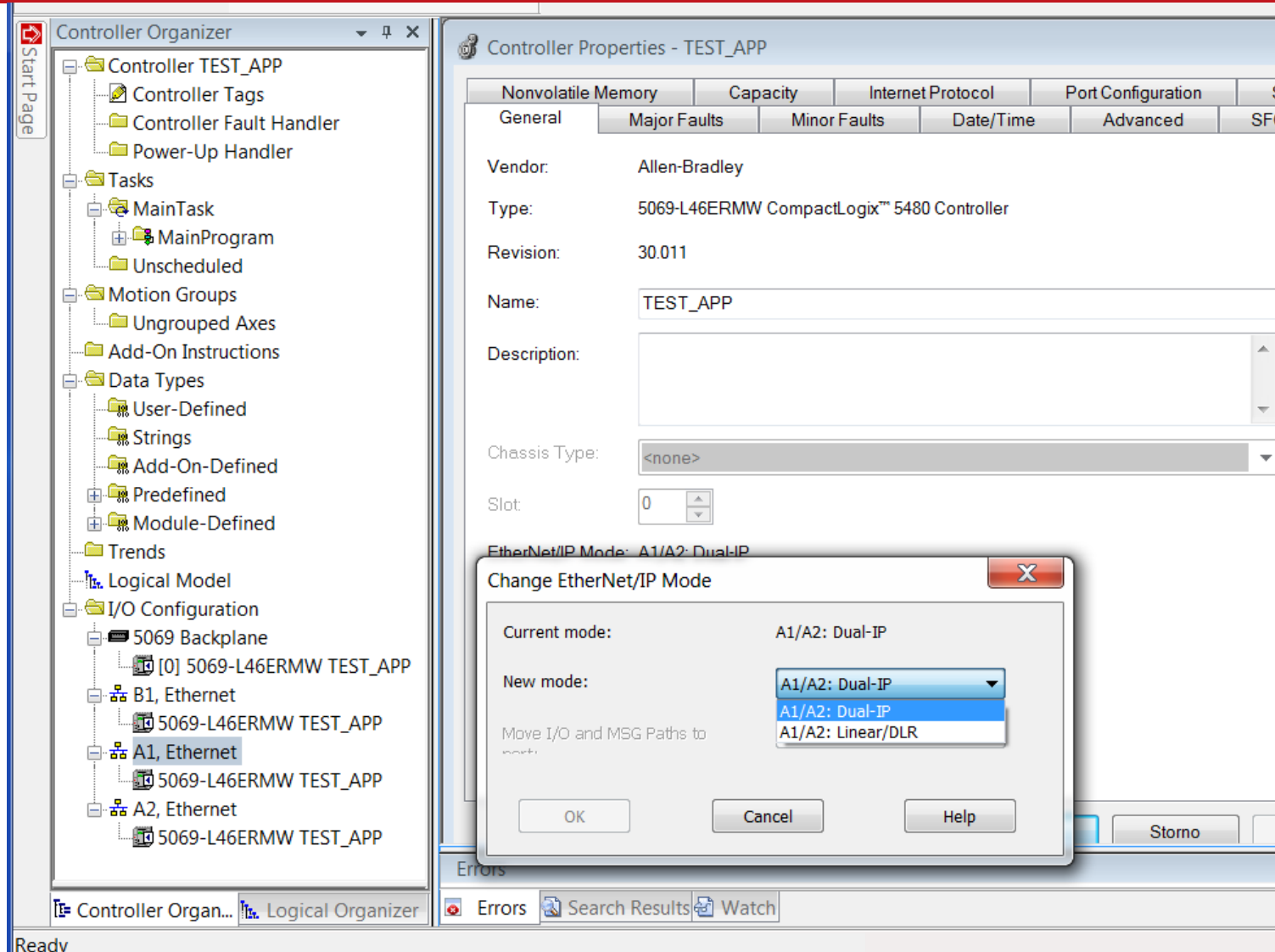
A1 - 1GbE , podpora vstupů/výstupů , polohování, pohony atd. individuální IP adresa nebo Linear/DLR sdružena s A2

A2 - 1GbE , podpora vstupů/výstupů , polohování, pohony atd. individuální IP adresa nebo Linear/DLR sdružena s A1

X1 – 1GbE , vyhrazený Windows 10 IoT bez propojení vstupů/výstupů.



CompactLogix 5480



Zobrazení Ethernet portů v projektu. X1 „chybí“

CompactLogix 5480

	CompactLogix 5380 „CompactLogix Gigabit“	CompactLogix 5480 „CompactLogix s PC“	ControlLogix 5580 1756-L8x
Max. počet os v síti Ethernet/IP	32	150	256
Max. počet nódů v síti Ethernet/IP	80	250	300
Uživatelská paměť	10MB	20MB Logix 16GB Windows 10	40MB
Studio5000 Logix Designer	V 28+	V 30+	V 28+
GbE porty	2 Logix	3 Logix + 1 OS	1x
Monitor	n/a	DisplayPort	-
Lokální I/O	Až 31 modulů 5069 Compact I/O	Až 31 modulů 5069 Compact I/O	Až 16 modulů 1756 ControlLogix I/O
Více procesorů	n/a	n/a	ano

Pro koho je určen ?



CompactLogix 5480

1. Integrovaná vizualizace
2. Integrované počítačové vidění
3. Integrovaná analytika
4. Integrovaná brána do cloudu
5. Komplexní ovládání linky
6. Vaše unikátní aplikace

Co znamená „S2“ v katalogovém čísle ?



5069-L306ERMS2
5069-L306ERS2

Compact GuardLogix 5380 „Gigabit“ SIL 2

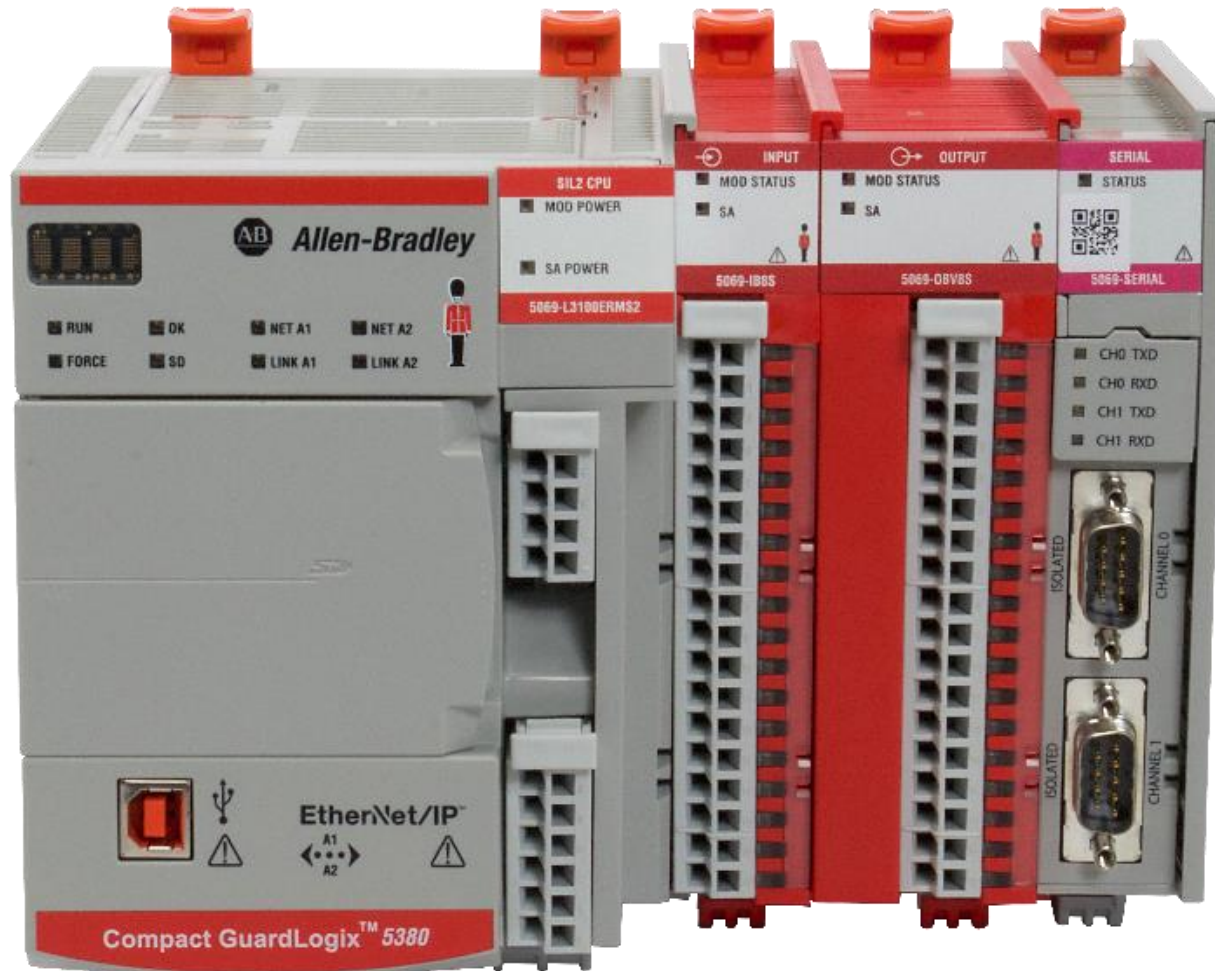
5069 Series Compact 5000 - RCM D X

literature.rockwellautomation.com/idc/groups/literature/documents/ct/5069-ct001_-en-e.pdf

160%

5069-HSC2XOB4	<i>High Speed Counter Input/Digital Output Module</i>
5069-IA16	<i>16 Channel, Digital AC Input Module</i>
5069-IB16	<i>16 Channel, Digital DC Input Module</i>
5069-IB16F	<i>16 Channel, Fast Digital DC Input Module</i>
5069-IB6F-3W	<i>6 Channel, Fast Digital DC Input Module w/Sensor Power</i>
5069-IF8	<i>8 Channel, Current/Voltage Analogue Input Module</i>
5069-IY4	<i>4 Channel, Thermocouple/RTD Analogue Input Module</i>
5069-L306ER	<i>600 KB Dual Channel Ethernet/IP™ Controller</i>
5069-L306ERM	<i>600 KB Dual Channel Ethernet/IP™ Motion Controller</i>
5069-L306ERMS2	<i>600KB Dual Channel Ethernet/IP™ SIL2 Motion Controller</i>
5069-L306ERS2	<i>600KB Dual Channel Ethernet/IP™ SIL2 Controller</i>
5069-L3100ERM	<i>10 MB Dual Channel Ethernet/IP™ Motion Controller</i>
5069-L3100ERMS2	<i>10 MB Dual Channel Ethernet/IP™ SIL2 Motion Controller</i>
5069-L3100ERS2	<i>10 MB Dual Channel Ethernet/IP™ SIL2 Controller</i>
5069-L310ER	<i>1 MB Dual Channel Ethernet/IP™ Controller</i>
5069-L310ERM	<i>1 MB Dual Channel Ethernet/IP™ Motion Controller</i>
5069-L310ERMS2	<i>1 MB Dual Channel Ethernet/IP™ SIL2 Motion Controller</i>
5069-L310ER-NSE	<i>1 MB Dual Channel Ethernet/IP™ Controller w/o Cap</i>
5069-L310ERS2	<i>1 MB Dual Channel Ethernet/IP™ SIL2 Controller</i>
5069-L320ER	<i>2 MB Dual Channel Ethernet/IP™ Controller</i>
5069-L320ERM	<i>2 MB Dual Channel Ethernet/IP™ Motion Controller</i>
5069-L320ERMS2	<i>2 MB Dual Channel Ethernet/IP™ SIL2 Motion Controller</i>
5069-L320ERS2	<i>2 MB Dual Channel Ethernet/IP™ SIL2 Controller</i>
5069-L330ER	<i>3 MB Dual Channel Ethernet/IP™ Controller</i>
5069-L330ERM	<i>3 MB Dual Channel Ethernet/IP™ Motion Controller</i>
5069-L330ERMS2	<i>3 MB Dual Channel Ethernet/IP™ SIL2 Motion Controller</i>
5069-L330ERS2	<i>3 MB Dual Channel Ethernet/IP™ SIL2 Controller</i>
5069-L340ER	<i>4 MB Dual Channel Ethernet/IP™ Controller</i>

Compact GuardLogix 5380 „Gigabit“ SIL 2



Compact GuardLogix 5380 „Gigabit“ SIL 2

Kat. č.	Uživatelská paměť	Bezpečnostní paměť	Polohování	Počet os	Počet nódů Ethernet I/P
5069-L306ERMS2	0.6 MB	0.3 MB	Ano	2	16
5069-L306ERS2	0.6 MB	0.3 MB	--		16
5069-L310ERMS2	1 MB	0.5 MB	Ano	4	24
5069-L310ERS2	1 MB	0.5 MB	--		24
5069-L320ERMS2	2 MB	1 MB	Ano	8	40
5069-L320ERS2	2 MB	1 MB	--		40
5069-L330ERMS2	3 MB	1.5 MB	Ano	16	60
5069-L330ERS2	3 MB	1.5 MB	--		60
5069-L340ERMS2	4 MB	2 MB	Ano	20	90
5069-L340ERS2	4 MB	2 MB	--		90
5069-L350ERMS2	5 MB	2.5 MB	Ano	24	120
5069-L350ERS2	5 MB	2.5 MB	--		120
5069-L380ERMS2	8 MB	4 MB	Ano	28	150
5069-L380ERS2	8 MB	4 MB	--		150
5069-L3100ERMS2	10 MB	5 MB	Ano	32	180
5069-L3100ERS2	10 MB	5 MB	--		180

Jak vypadá situace v oblasti
nejvýkonnějších řídicích systémů ?



ControlLogix 1756



RS232



USB



USB + Ethernet 1GB

1756-L1x	1756-L55x	1756-L6x	1756-L71	1756-L81E	1756-L81ES
			1756-L72	1756-L82E	1756-L82ES
			1756-L73	1756-L83E	1756-L83ES
			1756-L74	1756-L84E	1756-L84ES
			1756-L75	1756-L85E	
			1756-L73XT		
			1756-L71S		
			1756-L72S		
			1756-L73S		
			1756-L72EROM		E - Ethernet
			1756-L73EROM		S - Safety
			1756-L72EROMS		O - armOr
			1756-L73EROMS		XT – eXTreme temperature

Novinka

GuardLogix 5580 – 1756-L8xES



Procesor bez partnera : SIL2/PLd

Procesor s partnerem 1756-L8SP : SIL3/PLe

GuardLogix 5580 – 1756-L8xES

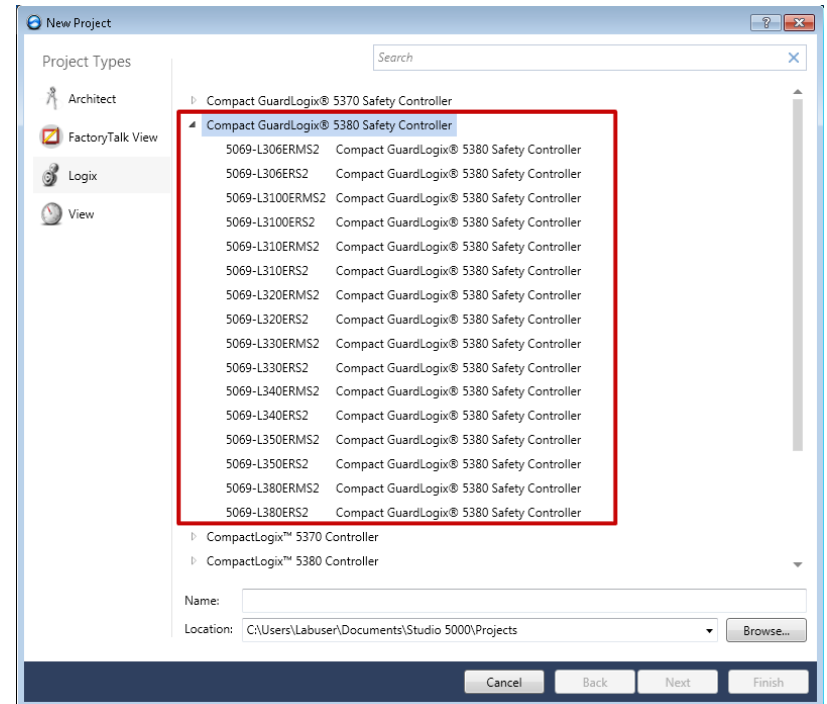
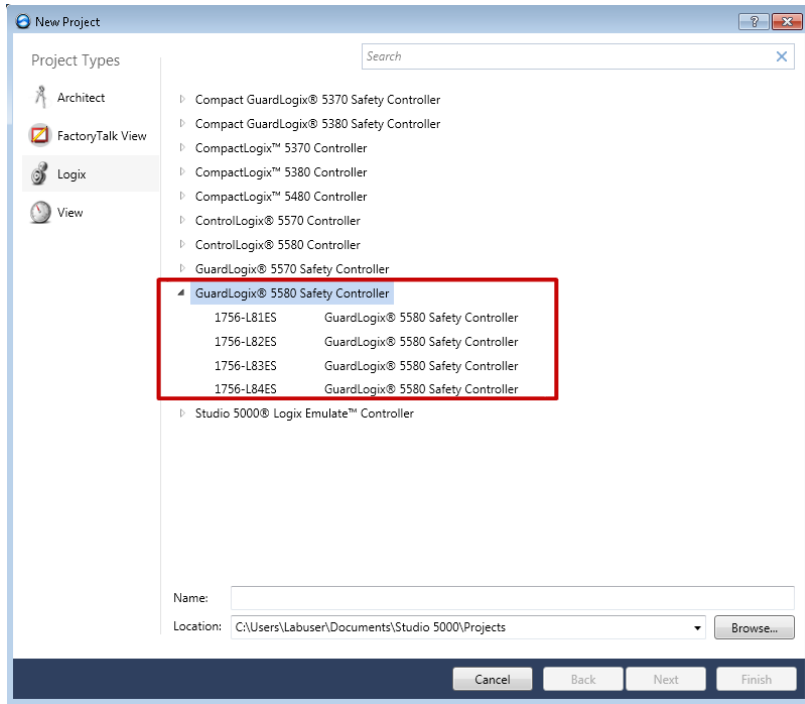


Kat. číslo	Velikost paměti		Max. počet Ethernet/IP nódů
	Standardní	Safety	
1756-L81ES	3	1.5	100
1756-L82ES	5	2.5	175
1756-L83ES	10	5	250
1756-L84ES	20	6	250
1756-L8SP	n/a	n/a	n/a

Jakou verzi budu potřebovat
pro nové „safety“ procesory ?



Studio5000 V31



Co je nového ve verzi 31
kromě nových procesorů ?



Studio5000 V31

Logix Designer - alarm [5069-L306ER 31.11]*

FILE EDIT VIEW SEARCH LOGIC COMMUNICATIONS TOOLS WINDOW HELP

Controller Organizer

Alarms: alarm Alarm Definitions: alarm Controller Tags - alarm(controller) Alarm Definitions: kotel Data Type: kotel

Show: All Search

Use	Owner	Name	Type	Input	Expression	Limit	Message	Target Tag	Class	Alarm Group
<input checked="" type="checkbox"/>	koncak	koncak	HIHI	koncak	= 1		Dojelo to na bezpečn		teploty	teploty group
<input checked="" type="checkbox"/>	soustava[0]	varime	HI	soustava[0].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[1]	varime	HI	soustava[1].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[2]	varime	HI	soustava[2].teplota	>=	100	kotel se vari			
<input type="checkbox"/>	soustava[3]	varime	HI	soustava[3].teplota	>=	100	kotel se vari			
<input type="checkbox"/>	soustava[4]	varime	HI	soustava[4].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[5]	varime	HI	soustava[5].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[6]	varime	HI	soustava[6].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[7]	varime	HI	soustava[7].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[8]	varime	HI	soustava[8].teplota	>=	100	kotel se vari			
<input checked="" type="checkbox"/>	soustava[9]	varime	HI	soustava[9].teplota	>=	100	kotel se vari			

Controller Organizer

- Controller alarm
 - Controller Tags
 - Controller Fault Handler
 - Power-Up Handler
- Tasks
 - MainTask
 - MainProgram
 - Unscheduled
- Motion Groups
 - Ungrouped Axes
- Alarm Manager
 - Alarms
 - Alarm Definitions
- Assets
 - Add-On Instructions
 - sa
 - Parameters and Local Tag
 - Logic
 - Data Types
 - User-Defined
 - kotel
 - Strings
 - Add-On-Defined
 - Predefined
 - Module-Defined
 - Trends
- Logical Model
- I/O Configuration

Ready

Communication Software: RSLinx Classic

Studio5000 V31

New Alarm*

General*

Class/Group

Advanced

Status

Name:

Input: ...

Condition: **HI** Input: Expression: Limit:

On Delay: ms (Must be a multiple of the evaluation period [500 ms]).

Off Delay: ms (Must be a multiple of the evaluation period [500 ms]).

Deadband:

Severity:

Message:

Associated Tags:

	Name	Description
1		
2		
3		
4		

Shelving: Duration min Max Duration min

Use and evaluate alarm

Alarm State: Normal
Fault Status:

Alarm instrukce

The screenshot shows a software interface for configuring an alarm. In the foreground, the 'ALMD Properties - alarmek2 (Rung 1)' dialog box is open, displaying configuration options for an alarm. In the background, a ladder logic diagram is visible, showing the 'ALMA' and 'ALMD' instructions.

ALMD Properties - alarmek2 (Rung 1)

Configuration Status Parameters Tag

Condition: Input = 1 Latched

Severity: 500 Acknowledgement Required

Minimum Duration: 0 ms

Message:

Associated Tags

	Name	Type	Description
1			
2			
3			
4			

New Tag...

Alarm Class:

FactoryTalk View Command:

Status: OK

Alarm: Normal Disabled

Acknowledged Suppressed

Delivery:

ALMA

Analog Alarm
ALMA alarmek2
In ?
ProgAckAll ??
ProgDisable ?
ProgEnable ??
HHLimit 0.0
HLimit 0.0
LLimit 0.0
LLLimit 0.0

(HHInAlarm)
(HInAlarm)
(LInAlarm)
(LLInAlarm)
(ROCPosInAlarm)
(ROCNegInAlarm)
(HHAcked)
(HACKed)
(LACKed)
(LLACKed)
(ROCPosAcked)
(ROCNegAcked)
(Suppressed)
(Disabled)
(InstructFault)

ALMD

Digital Alarm
ALMD alarmek2
ProgAck ?
ProgReset ??
ProgDisable ?
ProgEnable ??
MinDurationPRE 0
MinDurationACC 0

(InAlarm)
(Acked)
(Suppressed)
(Disabled)
(InstructFault)

Porovnání nároků na paměť

- 1700Bytů

ALMD Instrukce

- 4880 Bytů

ALMA Instrukce (4 Alarmy)

- 850 Bytů

Logix Tag-Based Alarm

Logix Tag-Based Alarms

- Není potřeba psát další instrukce
- Alarms jsou automaticky posílány do FactoryTalk Alarms and Events
- Alarm manager poskytuje jednomu místu konfigurace
- Menší paměťové nároky než instrukce ALMD a ALMA
- Periodické testování 500ms

Podporované jsou jen procesory

- Compact GuardLogix 5380, CompactLogix 5380,
- CompactLogix 5480, ControlLogix 5580, and GuardLogix 5580

„No prostě jen s Gigabitovým ethernetem“



Existují vůbec safety vstupy a výstupy,
které lze připojit 1Gb/s Ethernetem ?



Compact GuardLogix 5380 a GuardLogix 5580

5069-AEN2TR
COMPACT 5000™ I/O modules

1756-L85E 1756-L72 1756-L84ES 1756-EN2TR

PowerFlex® 755 Drive

1 Gbps 1 Gbps

100 Mbps

PanelView™ Plus 7

100 Mbps

1 Gbps

100 Mbps

Stratix® 5400

100 Mbps

5069-AEN2TR
COMPACT 5000™ Safety I/O Modules
COMPACT 5000 I/O Modules

PowerFlex® 527 Drive
(CIP Safety enabled)

1734-AENTR
1734 POINT I/O™

1734-AENTR EtherNet/IP Adapter
1734 POINT Guard I/O™
Safety Device


5069-OBV8S

Zvýraznit vše Rozlišovat velikost Čelá slova

Moduly 5069-IB8S a 5069-OBV8S jsou zatím ve vývoji.

FLEX 5000™ I/O



 The Next Generation of **FLEX™ I/O**

Klíčové vlastnosti

- 1 Gb EtherNet/IP
- Podpora DLR – Kruh, Lineární topologie
- V budoucnu podpora PRP topologie (paralelní redundantní protokol)
- Připojení Ethernetu pomocí RJ45 nebo optika pomocí SFP portů
- Podpora safety modulů
- RIUP vyjímání a vkládání modulů pod napětím
- až 16 modulu
- Vertikální nebo horizontální montáž
- XT „extreme“ provedení
- Možnost pružinových svorkovnic

FLEX 5000™ I/O

Popis	Katalogové číslo	
	Standardní prostředí	Extrémní prostředí
Ethernet/IP adaptér, RJ45 konektory, Podpora až 8 modulů FLEX 5000 I/O	5094-AENTR	5094-AENTRX
Ethernet/IP adaptér, RJ45 konektory, Podpora až 16 modulů FLEX 5000 I/O	5094-AEN2TR	5094-AEN2TRX
Ethernet/IP adaptér, SFP porty, Podpora až 8 modulů FLEX 5000 I/O	-	5094-AENSFPRX
Ethernet/IP adaptér, SFP porty, Podpora až 16 modulů FLEX 5000 I/O	-	5094-AEN2SFPRX

FLEX 5000™ I/O

Popis	Katalogové číslo	
	Standardní prostředí	Extrémní prostředí
Rychlý čítač se 4 výstupy	5094-HSC	5094-HSCXT
16 digitálních vstupů 24V DC	5094-IB16	5094-IB16XT
8 analogových vstupů	5094-IF8	5094-IF8XT
8 analogových univerzálních vstupů	5094-IY8	5094-IY8XT
16 digitálních výstupů 24V DC	5094-OB16	5094-OB16XT
8 analogových výstupů	5094-OF8	5094-OF8XT
8 reléových výstupů individuálně izolovaných	5094-OW8	5094-OW8XT

FLEX 5000™ I/O

Popis	Katalogové číslo	
	Standardní prostředí	Extrémní prostředí
16 digitálních bezpečnostních vstupů 24V DC	5094-IB16S	5094-IB16SXT
4 analogové izolované bezpečnostní vstupy s HART	5094-IF4IHS	5094-IF4IHSXT
bezpečnostní frekvenční čítač	5094-IJ2IS	5094-IJ2ISXT
8 bezpečnostních vstupů RTD, termočlánek	5094-IRT8S	5094-IRT8SXT
16 digitálních bezpečnostních výstupů 24V DC	5094-OB16S	5094-OB16SXT
4 analogové izolované bezpečnostní výstupy s HART	5094-OF4IHS	5094-OF4IHSXT
4 bezpečnostní reléové výstupy	5094-OW4IS	5094-OW4ISXT

Kdy to bude dostupné ?



FLEX 5000 I/O Modules x 5094-pp001_en-p.pdf x FLEX 5000 I/O Modules - Hled: x +

https://ab.rockwellautomation.com/IO/In-Cabinet-Modular/FLEX-5000-IO-Modules 120%

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FLEX 5000 I/O Modules

Our FLEX 5000™ I/O is a reliable and flexible distributed I/O solution, which allows you to choose your I/O to meet your operational needs. FLEX 5000 I/O enhances communication with 1 Gb EtherNet/IP™ connectivity, which offers higher speed and increased bandwidth. To provide flexibility in your network architecture, FLEX 5000 I/O includes 2 copper or 2 fiber ports (SFP) and support for DLR, Star, Linear, and PRP topologies. Designed for use in a broad range of applications, the FLEX 5000 I/O operates in -40...70 °C (-40...158 °F) temperatures.


Scheduled to launch in 2018.

Overview Documentation

Features

- Enhances communication with 1 Gb EtherNet/IP connectivity through copper or fiber, with SFP adapters
- Supports a wide range of network topologies: DLR, Star, Linear and PRP
- Supports flexible installation with horizontal or vertical mounting
- Allows users to replace modules while system is in operation with easy snap-on installation via Removal and Insertion Under Power (RIUP)

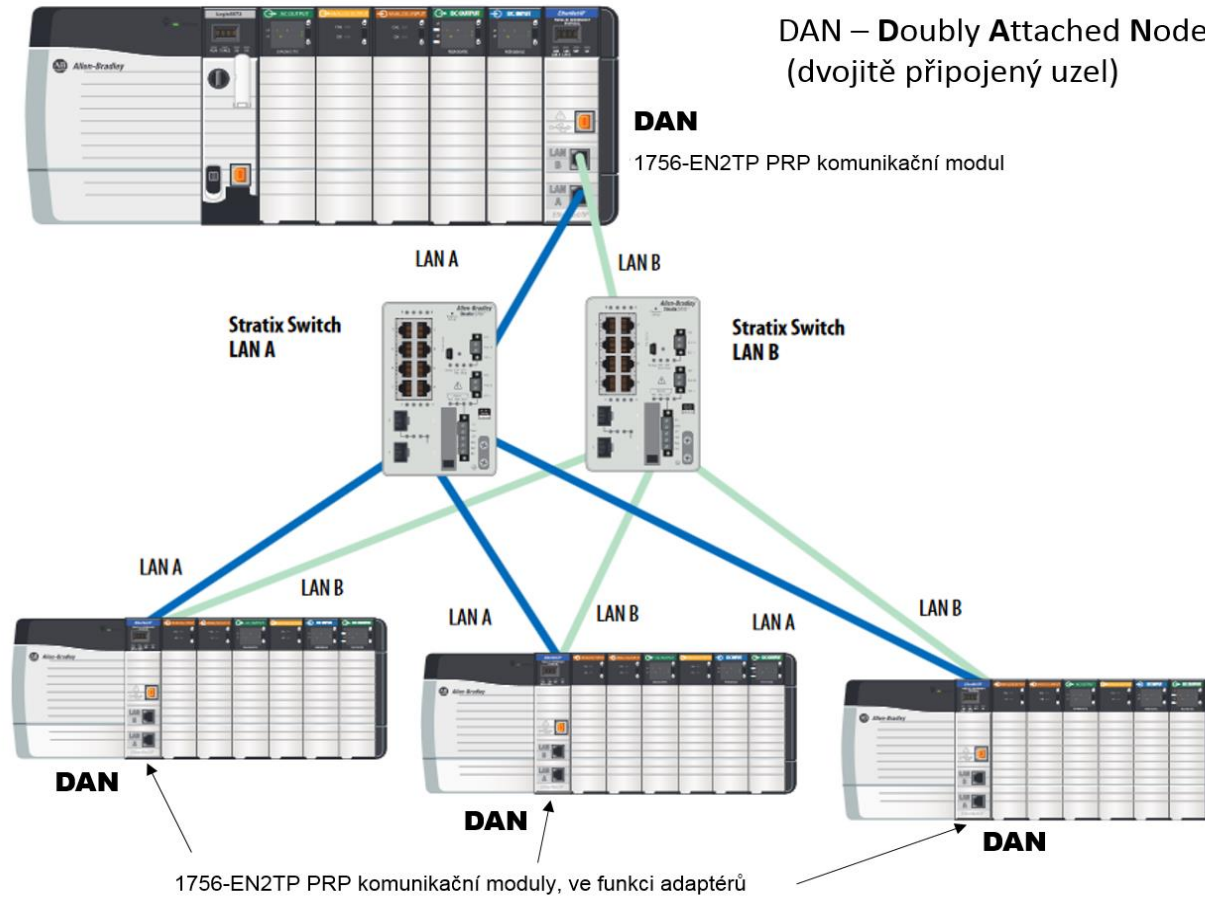
5069-I Zvýraznit vše Rozlišovat velikost Celá slova 1. z 50 výskytů



Distributed I/O, In-Cabinet Modular

- 1715 Redundant I/O Modules
- 1719 Ex I/O Modules
- 1734 POINT I/O
- 1794 FLEX I/O Modules

1756-EN2TP



PRP

Kde se dozvím více jak
správně aplikovat PRP ?



The screenshot shows a web browser window with the following elements:

- Browser Tabs:** "Automation Components & Int...", "Literature Library Search | Rock...", "EtherNet/IP Parallel Redundancy Pr..."
- Address Bar:** "literature.rockwellautomation.com/idc/groups/literature/documents/at/enet-at006_en-p.pdf"
- Page Header:** "Application Technique" and "Original Instructions" on the left; the "Allen-Bradley" logo on the right.
- Main Title:** "EtherNet/IP Parallel Redundancy Protocol" in a large, bold font.
- Sub-headers:** "Catalog Numbers 1756-EN2TP, 1783-HMS, 1783-IMS" below the main title.
- Images:** A grid of four images: a glass of water, a bottle on a production line, a robotic arm, and an offshore oil rig.
- Table of Contents (Left Sidebar):**
 - EtherNet/IP Parallel Redundancy Protocol Application Technique
 - Table of Contents
 - Preface
 - Additional Resources
 - 1 - Parallel Redundancy Protocol
 - PRP Network Operation
 - Comparison of PRP and DLR
 - PRP Network Topologies
 - Basic PRP Topology
 - PRP Topology with LANs as Clouds
 - PRP Topology with SAN and VDANs
 - PRP Topology with Device Level Ring for VDANs
 - PRP Topology with Multiple VLANs
 - PRP Topology with VLAN Trunking
 - PRP Topology with Dual RedBoxes Connected to Supervisory Network

ControlLogix Compute Module



Katalogové číslo	Popis
1756-CMS1B1	ControlLogix Compute Modul, Intel Atom 1.46 GHz dual-core, 32 GB SSD, 4GB RAM, Windows 10 IoT Enterprise 64-bit OS, 1x USB 3.0 port, 2x 1GB Ethernet, 1x DisplayPort
1756-CMS1C1	ControlLogix Compute Modul, Intel Atom 1.46 GHz dual-core, 32 GB SSD, 4GB RAM, Linux 32-bit OS, 1x USB 3.0 port, 2x 1GB Ethernet, 1x DisplayPort

Kompatibilita

Poběží to spolu dohromady ?



Toto je jedna z nejčastějších otázek....

Kompatibilita

Automation Components & Int... Compare Selections

https://compatibility.rockwellautomation.com/Pages/MultiProductCompareSelections.aspx?crumb=113&toggleState=&versions=56360,5000

Compatibility / Download Center > Multi Product Selector > Compare Selections

COMPARE SELECTIONS ?

SELECTIONS DOWNLOADS

	RSLinx Classic	RSLogix 5000	Connected Components Workbench	1769-L19ER-BB1B
Series	3.90.01	16.04.00	11.00.00	series A
Version	3.90.01	16.04.00	11.00.00	28.011
Downloads				
Information				
Compatibility				
RSLinx Classic 3.90.01		●	●	✓
RSLogix 5000 16.04.00	●		●	✗
Connected Components Workbench 11.00.00	●	●		●
1769-L19ER-BB1B (series A) 28.011	✓	✗	●	
Other Products - Compatibility				
Rockwell Services				
Operating Systems				
	RSLinx Classic	RSLogix 5000	Connected Components Workbench	1769-L19ER-BB1B
	3.90.01	16.04.00	11.00.00	A 28.011
General				
Windows 10				
Windows 10 Enterprise, 32-bit, Version 1511	✓	●	●	●
Windows 10 Enterprise, 32-bit, Version 1607	!	✗	●	●
Windows 10 Enterprise, 32-bit, Version 1703	!	✗	●	●
Windows 10 Enterprise, 64-bit, Version 1511	!	●	●	●
Windows 10 Enterprise, 64-bit, Version 1607	!	●	●	●
Windows 10 Enterprise, 64-bit, Version 1703	!	●	●	●
Windows 10 Professional, 32-bit, Version 1511	✓	●	✓	●
Windows 10 Professional, 32-bit, Version 1607	!	✗	✓	●
Windows 10 Professional, 32-bit, Version 1703	!	✗	●	●
Windows 10 Professional, 64-bit, Version 1511	!	●	✓	●
Windows 10 Professional, 64-bit, Version 1607	!	●	✓	●
Windows 10 Professional, 64-bit, Version 1703	!	●	●	●

Top

Hardware x Software x Operační systém

Ethernet/IP Capacity Tool (Next Gen)

Zvládne vybraný řídicí systém komunikaci, kterou po něm chci ?



Ethernet/IP Capacity Tool (Next Gen)

The screenshot displays the RA - Integrated Architecture Builder software interface. The main window is titled "RA - Integrated Architecture Builder - Project001". The interface includes a menu bar (File, Action, Option, View, Help), a toolbar with various icons, and a "Workspace" pane on the left showing "Workspace 'Project001'".

The central area is titled "Wizard View" and contains a toolbar with icons for "Project Design Assistant", "ControlLogix", "CompactLogix", "Micro800", "Distributed IO", "PlantPax", "1771 Migration", "SLC Migration", "DIO Migration", "MicroLogix Migration", and "EtherNet/IP Capacity". A tooltip for the "EtherNet/IP Capacity" icon is visible, stating "Add New EtherNet/IP Capacity Wizard".

Below the toolbar, the "Platform Selection Assistants" section contains the following text:

The look and feel of the System view has been changed to make it easier to add and organize the wizards you use. The wizards are the same, but the way you add and open wizards has changed.

To open a new wizard, click the corresponding button in the toolbar. The wizard will open and also will be added to the tree.

To open an existing wizard, double click the wizard item in the tree.

The "Available Assistants..." tree on the left lists the following wizards:

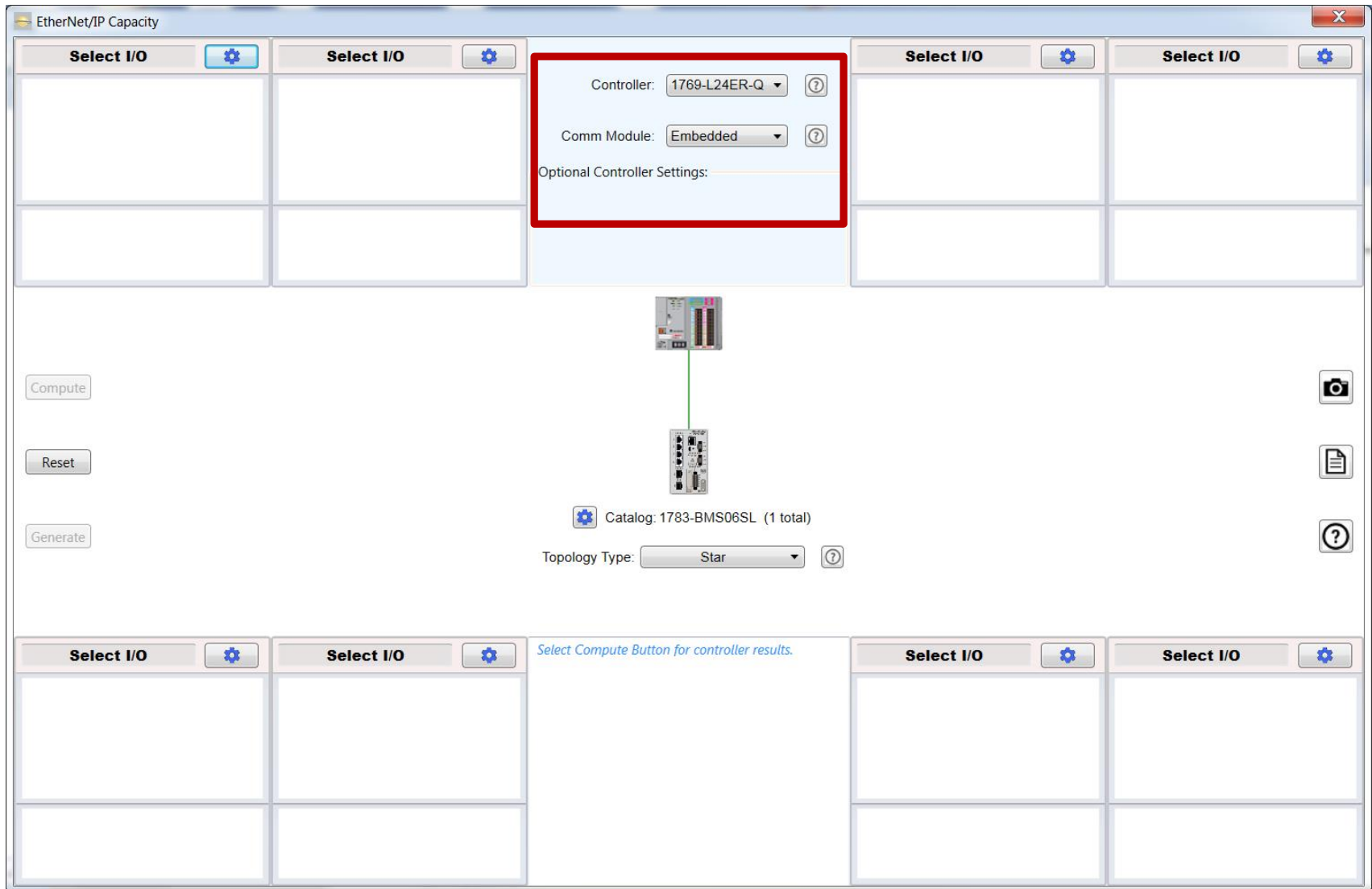
- Project Design Assistant
- ControlLogix Wizard
- CompactLogix Wizard
- Micro800 Wizard
- Distributed I/O Wizard
- PlantPax Estimator Wizard
- 1771 Migration Wizard
- SLC Migration Wizard
- DIO Migration Wizard
- MLX Migration Wizard
- EtherNet/IP Capacity Wizard

The "Available Assistants..." tree on the right shows a detailed view of the wizards, including their sub-items:

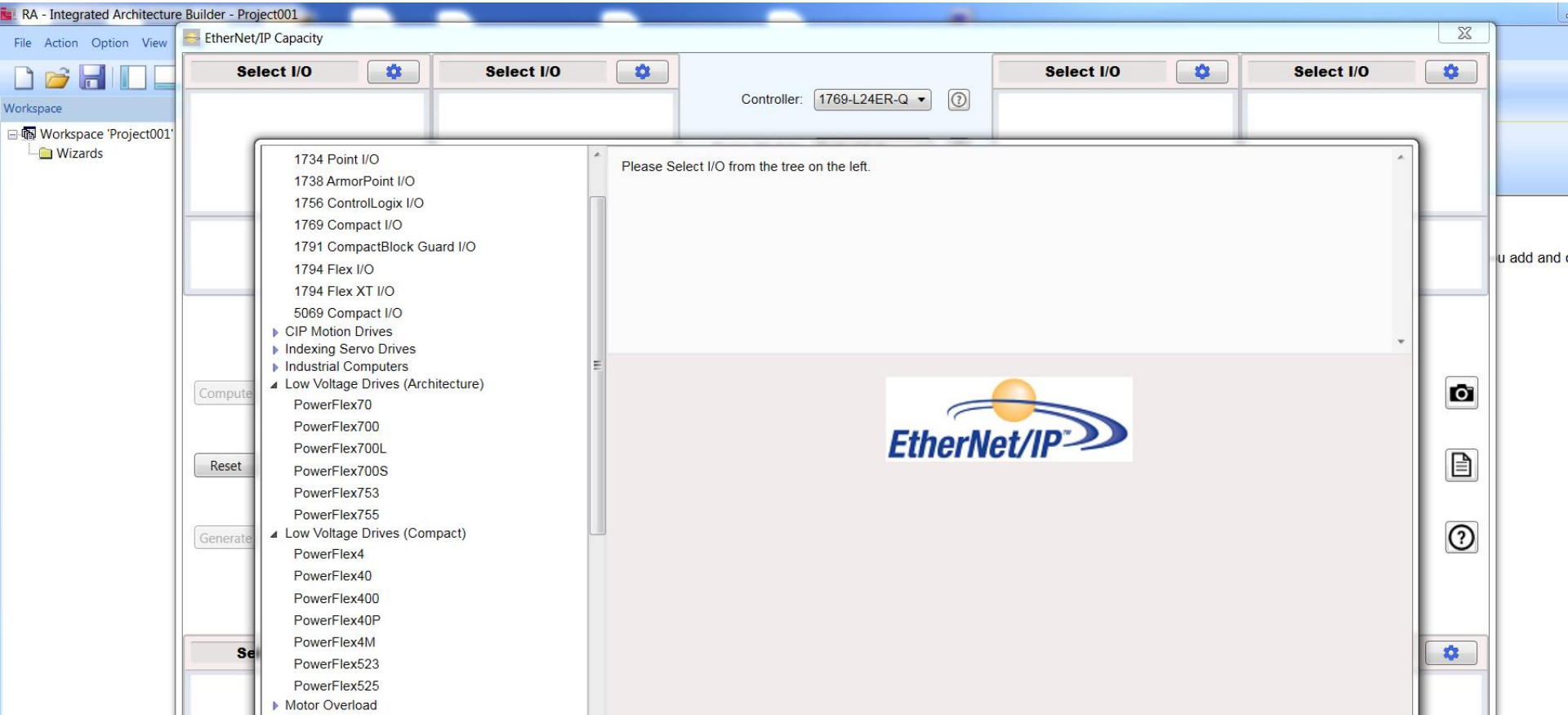
- ControlLogix Wizard
 - CLX_SS.1
- CompactLogix Wizard
 - CMX_SS.1
- Micro800 Wizard
 - MICRO800_SS.1
- Distributed I/O Wizard
 - DIO_SS.1
- PlantPax Estimator Wizard
 - PlantPax_SS.1
- 1771 Migration Wizard
 - 1771_Migration.1
- SLC Migration Wizard
 - SLC_Migration.1
- DIO Migration Wizard
 - DIO_Migration.1
- MLX Migration Wizard
 - MLX_Migration.1

The status bar at the bottom left shows "Add New EtherNet/IP Capacity Wizard" and the bottom right shows "CAP NUM SCRL".

EtherNet/IP Capacity Tool (Next Gen)



Ethernet/IP Capacity Tool (Next Gen)



EtherNet/IP Capacity Tool (Next Gen)

Integrated Architecture Builder - Project001

EtherNet/IP Capacity

Controller: 1769-L24ER-Q

Select I/O

1734 Point I/O

1738 ArmorPoint I/O

1756 ControlLogix I/O

1769 Compact I/O

1791 CompactBlock Guard I/O

1794 Flex I/O

1794 Flex XT I/O

5069 Compact I/O

- CIP Motion Drives
- Indexing Servo Drives
- Industrial Computers
- Low Voltage Drives (Architecture)
 - PowerFlex70
 - PowerFlex700
 - PowerFlex700L
 - PowerFlex700S
 - PowerFlex753
 - PowerFlex755
- Low Voltage Drives (Compact)
 - PowerFlex4
 - PowerFlex40
 - PowerFlex400
 - PowerFlex40P
 - PowerFlex4M
 - PowerFlex523
 - PowerFlex525
- Motor Overload

Chassis Count: 3

18 module(s) added to the chassis

32 free slots available

Digital


Module Count	Module Count	Module Count	Module Count
10	4	4	0
RPI (millisec)	RPI (millisec)	RPI (millisec)	RPI (millisec)
20	60	40	80

Analog

Rack Optimized

Bulletin 1734 POINT I/O™ is ideal for applications requiring flexibility and low cost of ownership. Granularity of one to eight points lets you buy only the I/O you need. The compact design makes installation easier in limited panel space. The family includes POINT Guard I/O™ safety-rated I/O modules that can be used side-by-side in a standard POINT I/O system. Network connectivity includes ControlNet™, DeviceNet™, EtherNet/IP™, and other open networks. Some modules feature DeviceLogix™ Smart Component Technology, integrating low-cost logic solving capability in your I/O for faster sense-to-actuation times.

- Modular design lets you independently select the I/O, termination style and network interface
- Components install easily by sliding together; pull apart easily for maintenance
- Removable wiring system saves time and money during installation and troubleshooting
- Comprehensive diagnostics and configurable features makes POINT I/O™ easy to apply
- Removal and Insertion Under Power (RIUP) lets you replace modules while the system is in operation



EtherNet/IP Capacity Tool (Next Gen)

The screenshot displays the 'EtherNet/IP Capacity' application window. The interface is organized into several sections:

- Top Left:** A panel titled '1734 Point I/O' with a green gear icon and a red 'X' icon. It lists: '3 Rack(s) of I/O', '- Rack Optimized Module(s) @ 20ms', '- 4 Analog Module(s) @ 60ms', and '- 4 Analog Module(s) @ 40ms'. Below this is a blue link: 'Select Compute Button for Chassis results.'
- Top Center:** Configuration fields for 'Controller: 1769-L24ER-Q' and 'Comm Module: Embedded', both with help icons. Below them is an 'Optional Controller Settings' text area.
- Top Right:** Two empty 'Select I/O' panels, each with a blue gear icon.
- Center:** A network diagram showing a central controller unit connected to two rack-mounted I/O modules. A green line represents the connection. Below the diagram is a gear icon and the text 'Catalog: 1783-BMS06SL (1 total)'. Below that is a 'Topology Type: Star' dropdown menu with a help icon.
- Left Side:** Three buttons: 'Compute', 'Reset', and 'Generate'.
- Right Side:** Three icons: a camera, a document, and a question mark.
- Bottom:** Four empty 'Select I/O' panels, each with a blue gear icon. A blue link in the center reads: 'Select Compute Button for controller results.'

Ethernet/IP Capacity Tool (Next Gen)

- ▶ Distributed I/O Racks
- ▶ CIP Motion Drives
- ▶ Indexing Servo Drives
- ▶ Industrial Computers
- ▶ Low Voltage Drives (Architecture)
- ▲ Low Voltage Drives (Compact)
 - PowerFlex4
 - PowerFlex40
 - PowerFlex400
 - PowerFlex40P
 - PowerFlex4M
 - PowerFlex523
 - PowerFlex525**
- ▶ Motor Overload
- ▶ On-Machine Drives
- ▶ Operator Interface
- ▶ Soft Starters
- ▶ Produce/Consume Tags

PowerFlex® AC and DC Drives are designed for flexibility, productivity, and ease of use. Our motor control solutions handle both low voltage and medium voltage applications, with a wide range of power ratings. With a broad selection of hardware, software, safety, and packaging options, there is a PowerFlex drive to meet the demands of most applications. A variety of motors designed for optimum variable speed performance and service life round out this offering.



Device

Device Count

2

RPI (millisec)

10

OK Cancel Reset

EtherNet/IP Capacity Tool (Next Gen)

EtherNet/IP Capacity

1734 Point I/O

3 Rack(s) of I/O
- Rack Optimized Module(s) @ 20ms
- 4 Analog Module(s) @ 60ms
- 4 Analog Module(s) @ 40ms

Select Compute Button for Chassis results.

PowerFlex525

2 Device(s) @ 10ms

Select Compute Button for Device results.

Controller: 1769-L24ER-Q

Comm Module: Embedded

Optional Controller Settings:

Select I/O **Select I/O**

Compute

Reset

Generate

Catalog: 1783-BMS06SL (1 total)

Topology Type: Star

Select I/O **Select I/O** *Select Compute Button for controller results.* **Select I/O** **Select I/O**

Ethernet/IP Capacity Tool (Next Gen)

▶ Distributed I/O Racks
▶ CIP Motion Drives
▶ Indexing Servo Drives
▶ Industrial Computers
▶ Low Voltage Drives (Architecture)
▶ Low Voltage Drives (Compact)
▶ Motor Overload
▶ On-Machine Drives
▲ Operator Interface
 PanelView Plus 6 (10")
 PanelView Plus 6 (12")
 PanelView Plus 6 (15")
 PanelView Plus 6 (4")
 PanelView Plus 6 (6")
 PanelView Plus 6 (7")
 PanelView Plus 6 Compact (4, 6, 10")
 PanelView Plus 7 Performance Terminals(10.4")
 PanelView Plus 7 Performance Terminals(12.1")
 PanelView Plus 7 Performance Terminals(15.9")
 PanelView Plus 7 Performance Terminals(19.0")
 PanelView Plus 7 Performance Terminals(6.5")
 PanelView Plus 7 Performance Terminals(9.0")
 PanelView Plus 7 Standard Models(10.4")
 PanelView Plus 7 Standard Models(12.1")
 PanelView Plus 7 Standard Models(15.0")
 PanelView Plus 7 Standard Models(4.3")
 PanelView Plus 7 Standard Models(5.7")
 PanelView Plus 7 Standard Models(7.0")
 PanelView Plus 7 Standard Models(9.0")
▶ Soft Starters
▶ Produce/Consume Tags

Graphic Terminals offer rugged electronic interface solutions in a variety of sizes, operator input methods, memory options and configurations. These robust devices are fully packaged (hardware, software and communications) and tested for human-machine interface operation. They have earned ratings for high shock, vibration, and temperature. Access your application information over a variety of communication protocols including DeviceNet™, ControlNet™, and EtherNet/IP™.

Device

Device Count	Standard Tags	CIP Connections
1	300	5
	String Tags	RPI (millisec)
	1	500

OK Cancel Reset

EtherNet/IP Capacity Tool (Next Gen)

The screenshot displays the 'EtherNet/IP Capacity' software interface. At the top, there are four main configuration panels:

- 1734 Point I/O:** 3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 20ms
 - 4 Analog Module(s) @ 60ms
 - 4 Analog Module(s) @ 40ms

Select Compute Button for Chassis results.
- PowerFlex525:** 2 Device(s) @ 10ms

Select Compute Button for Device results.
- Controller:** 1769-L24ER-Q
- Comm Module:** Embedded
- Optional Controller Settings:** (Empty field)

Below these panels is a network diagram showing a central controller connected to three I/O racks and one PanelView Plus 7 station. The controller is identified as 'Catalog: 1783-BMS06SL (2 total)' with a 'Topology Type' of 'Star'.

On the left side of the diagram, there are three buttons: 'Compute', 'Reset', and 'Generate'. On the right side, there are three icons: a camera, a document, and a question mark.

At the bottom, there are four 'Select I/O' panels, each with a gear icon. The central panel contains the text: 'Select Compute Button for controller results.'

EtherNet/IP Capacity Tool (Next Gen)

EtherNet/IP Capacity

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 20ms
 - 4 Analog Module(s) @ 60ms
 - 4 Analog Module(s) @ 40ms

	Per Chassis	Total
CIP	9	27
TCP	1	3
PPS	434	1300

PowerFlex525

2 Device(s) @ 10ms

	Per Device	Total
CIP	1	2
TCP	1	2
PPS	200	400

Controller: 1769-L24ER-Q

Comm Module: Embedded

Optional Controller Settings:

PanelView Plus 7 Stz

1 Device(s)
 Each Device with:
 300 Standard Tags
 1 String Tags
 5 CIP Connections @ 500ms

	Per Device	Total
CIP	5	5
TCP	1	1
PPS	20	20

Select I/O

Catalog: 1783-BMS06SL (2 total)

Topology Type: Star

Select I/O

Select I/O

Results

EtherNet Nodes 5 (3 remaining)

CIP Motion:

Pos Axes 0 (0 max)

Non-Pos Axes 0 (0 max)

Total Axes 0 (100 max)

	I/O	HMI	Motion
PPS	1701	20	0
Utilization%	21.9%	1.6%	0.0%

Select I/O

Select I/O

Ethernet/IP Capacity Tool (Next Gen)

Jak to vypadá když je to
nad rámec schopností procesoru ?



EtherNet/IP Capacity Tool (Next Gen)

EtherNet/IP Capacity

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 20ms
 - 4 Analog Module(s) @ 60ms
 - 4 Analog Module(s) @ 40ms

	Per Chassis	Total
CIP	9	27
TCP	1	3
PPS	434	1300

PowerFlex525

2 Device(s) @ 10ms

	Per Device	Total
CIP	1	2
TCP	1	2
PPS	200	400

Controller: 1769-L24ER-Q

Comm Module: Embedded

Optional Controller Settings:

PanelView Plus 7 St

1 Device(s)
 Each Device with:
 300 Standard Tags
 1 String Tags
 5 CIP Connections @ 500ms

	Per Device	Total
CIP	5	5
TCP	1	1
PPS	20	20

Select Compute Button for Chassis results.

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 2ms
 - 4 Analog Module(s) @ 8ms

Compute

Reset

Generate

Catalog: 1783-BMS06SL (2 total)

Topology Type: Star

Select I/O

Select I/O

Select Compute Button for controller results.

Select I/O

Select I/O

Ethernet/IP Capacity Tool (Next Gen)

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 20ms
 - 4 Analog Module(s) @ 60ms
 - 4 Analog Module(s) @ 40ms

	Per Chassis	Total
CIP	9	27
TCP	1	3
PPS	434	1300

PowerFlex525

2 Device(s) @ 10ms

	Per Device	Total
CIP	1	2
TCP	1	2
PPS	200	400

Controller: 1769-L24ER-Q

Comm Module: Embedded

Optional Controller Settings:

PanelView Plus 7 Sta

1 Device(s)
 Each Device with:
 300 Standard Tags
 1 String Tags
 5 CIP Connections @ 500ms

	Per Device	Total
CIP	5	5
TCP	1	1
PPS	20	20

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 2ms
 - 4 Analog Module(s) @ 8ms

	Per Chassis	Total
CIP	5	15
TCP	1	3
PPS	2000	6000

Compute Reset Generate

Catalog: 1783-BMS06SL (2 total)

Topology Type: Star

Select I/O

Select I/O

Results

EtherNet Nodes: 8 (0 remaining)

CIP Motion:

Pos Axes: 0 (0 max)

Non-Pos Axes: 0 (0 max)

Total Axes: 0 (100 max)

	I/O	HMI	Motion
PPS	7700	20	0
Utilization%	99.2%	1.6%	0.0%

Select I/O

Select I/O

73

Ethernet/IP Capacity Tool (Next Gen)

◀ Distributed I/O Racks

- 1715 Redundant I/O
- 1734 Point Guard I/O
- 1734 Point I/O**
- 1738 ArmorPoint I/O
- 1756 ControlLogix I/O
- 1769 Compact I/O
- 1791 CompactBlock Guard I/O
- 1794 Flex I/O
- 1794 Flex XT I/O
- 5069 Compact I/O

▶ CIP Motion Drives

▶ Indexing Servo Drives

▶ Industrial Computers

▶ Low Voltage Drives (Architecture)

▶ Low Voltage Drives (Compact)

▶ Motor Overload

▶ On-Machine Drives

▶ Operator Interface

▶ Soft Starters


▶ Produce/Consume Tags

Bulletin 1734 POINT I/O™ is ideal for applications requiring flexibility and low cost of ownership. Granularity of one to eight points lets you buy only the I/O you need. The compact design makes installation easier in limited panel space. The family includes POINT Guard I/O™ safety-rated I/O modules that can be used side-by-side in a standard POINT I/O system. Network connectivity includes ControlNet™, DeviceNet™, EtherNet/IP™, and other open networks. Some modules feature DeviceLogix™ Smart Component Technology, integrating low-cost logic solving capability in your I/O for faster sense-to-actuation times.

- Modular design lets you independently select the I/O, termination style and network interface
- Components install easily by sliding together; pull apart easily for maintenance
- Removable wiring system saves time and money during installation and troubleshooting
- Comprehensive diagnostics and configurable features makes POINT I/O™ easy to apply
- Removal and Insertion Under Power (RIUP) lets you replace modules while the system is in operation

Chassis Count: 3

7 module(s) added to the chassis
43 free slots available



Digital

Module Count: 3

RPI (millisec): 2

Rack Optimized

Analog

Module Count: 4

RPI (millisec): 2

Module Count: 0

RPI (millisec): 80

Module Count: 0

RPI (millisec): 80

OK Cancel Reset

EtherNet/IP Capacity Tool (Next Gen)

EtherNet/IP Capacity

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 20ms
 - 4 Analog Module(s) @ 60ms
 - 4 Analog Module(s) @ 40ms

	Per Chassis	Total
CIP	9	27
TCP	1	3
PPS	434	1300

PowerFlex525

2 Device(s) @ 10ms

	Per Device	Total
CIP	1	2
TCP	1	2
PPS	200	400

Controller: 1769-L24ER-Q

Comm Module: Embedded

Optional Controller Settings:

PanelView Plus 7 Stz

1 Device(s)
 Each Device with:
 300 Standard Tags
 1 String Tags
 5 CIP Connections @ 500ms

	Per Device	Total
CIP	5	5
TCP	1	1
PPS	20	20

1734 Point I/O

3 Rack(s) of I/O
 - Rack Optimized Module(s) @ 2ms
 - 4 Analog Module(s) @ 2ms

	Per Chassis	Total
CIP	5	15
TCP	1	3
PPS	5000	15000

Compute

Reset

Generate

Catalog: 1783-BMS06SL (2 total)

Topology Type: Star

Results	Value		
EtherNet Nodes	8 (0 remaining)		
CIP Motion:			
Pos Axes	0 (0 max)		
Non-Pos Axes	0 (0 max)		
Total Axes	0 (100 max)		
	I/O HMI Motion		
PPS	16700	20	0
Utilization%	212.3%	1.6%	0.0%

A to je všechno, nebo přijde ještě nějaká zajímavost ?



Point I/O 1734 ATEX

[1] TYPE EXAMINATION CERTIFICATE



[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

] Type Examination Certificate Number: **DEMKO 04 ATEX 0330347X Rev. 11**
] Product: **Programmable Industrial Controllers I/O Modules – 1734 Series**
] Manufacturer: **Rockwell Automation/ Allen Bradley**

[8b] Manufacturer Address: **1201 South 2nd Street, Milwaukee, WI 53204 USA**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
[8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
The examination and test results are recorded in confidential report no. **47888012294**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-15:2010
except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The following protection categories apply to the product:
Ex II 3 G Ex nA IIC T4 Gc
Ex II 3 G Ex nA nC IIC T4 Gc

Certification Manager
Jan-Erik Storgaard

Jan Erik Storgaard

Certification Body

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate. In accordance with the ATEX Product certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2004-02-17
Re-issued: 2017-10-11



UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

Děkuji za pozornost