

# **Application Note**

E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

> www.hiwinmikro.tw MD46UJ01-2507\_V1.1

# 改訂履歴

マニュアルのバージョンは表紙の下部にも記載されています。

# MD46UJ01-<u>2507\_V1.1</u> バージョン 改訂年月

日付	バージ ョン	適用機種	改訂内容
		E2	セクション 4.1 AOI の実行の内容を 3 つのカテゴリ
2025年7月	1.1	EtherNet/IP	(軸通信、動作指示、パラメーターの読み取り/書き込
		ドライバー	み) に分割し、詳細を追加
		E2	
2025年2月	1.0	EtherNet/IP	初版
		ドライバー	

### 関連文書

関連ドキュメントを通じて、ユーザーはこのマニュアルの位置付けとマニュアルと製品の相関関係をす ぐに理解できます。詳細については、HIWIN MIKROSYSTEM の公式 Web サイト → ダウンロード → マニュアルの概要 (https://www.hiwinmikro.tw/Downloads/ManualOverview\_EN.htm) にアクセスしてく ださい。 このマニュアルでは、E2 EtherNet/IP ドライバーを Allen-Bradley (Rockwell) PLC で使用する場合の PLC ソフトウェア Studio 5000 の操作について説明します。PLC のプロジェクト作成、通信設定、パ ラメーター設定、機能ブロックの作成と操作など、このマニュアルの内容は、完全なマシンセットアッ プの手順に従って構成されています。E2 EtherNet/IP ドライバーの詳細な理解については、「E2 シリー ズドライバー EtherNet/IP 通信コマンド マニュアル」を参照してください。

# ソフトウェアハードウェアの仕様

名称	ソフトウェア/ファームウェアのバージョン
	ソフトウェア (Thunder): 1.11.6.0 以上
E2 EtherNet/IP ドライバー	ファームウェア: 3.11.6 以上
	EDS ファイル: HIWINMIKROSYSTEM_ED2F_20240418 以上
Allen-Bradley PLC	ソフトウェア (Studio 5000): V34.01.00 以上
(CompactLogix 5380)	ファームウェア: V34.011 以上

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# 1.1 新しいプロジェクトを作成する

Rockwell Studio 5000 を開き、「New Project」をクリックします。 1.

	Studio	<b>5000</b> °	_ ×
		PTYTAIK	
	Create	Open	Explore
	New Project	Existing Project	Help
	From Import	Sample Project	About
Recent Projects	From Sample Project	From Upload	
💰 E2_AC_USB	💰 AC_5089_L330ERM		

図 1.1.1

2. コントローラー モデルを選択し、プロジェクト名を入力して、アーカイブ パスを選択します。次 に、[Next] をクリックします。

🗿 New Project		? >	×
Project Types	Search	)	×
Architect	✓ CompactLogix <sup>™</sup> 5380 Controller		•
💰 Logix	5069-L306ER CompactLogix™ 5380 Controller 5069-L306ERM CompactLogix™ 5380 Controller		i.
	5069-L3100ERM CompactLogix™ 5380 Controller 5069-L310ER CompactLogix™ 5380 Controller		
	5069-L310ERM CompactLogix™ 5380 Controller		I.
	5069-L320ER CompactLogix™ 5380 Controller		
	5069-L320ERM CompactLogix™ 5380 Controller 5069-L320ERP CompactLogix™ 5380 Controller		
	5069-L330ER CompetLogix™ 5380 Controller		Ŧ
	Name: E2_AC		
	Location: C:\Users\super99056\Documents\Studio 5( ~	Browse	
	Cancel Back Next	Finish	

図 1.1.2

#### <u>E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000</u>通信とモジュールのセットアップ

3. コントローラーのバージョンを選択し、「Finish」をクリックします。

🕘 New Project		?	×
5069-L330ERM C E2_AC	CompactLogix™ 5380 Controller		
Revision:	34 ×		
Security Authority:	No Protection V		
	Use only the selected Security Authority for authentication and authorization		
Secure With:	ogical Name <controller name=""></controller>		
	Permission Set		
Description:			
	Cancel Back Next	Fini	sh

図 1.1.3

4. 新しいプロジェクトが正常に作成されます。

Logix Designer - E2_AC [5069-L330ERM 34.11]				- 8 ×
File Edit View Search Logic Communicat	ions Tools Window Help			
15 🖆 🐸 🖶 🗴 🗇 요 🤊 약	v 🐤 🏂 輝	📴 🖕 🕞 🔥 🏦 🛛		
= RUN				
Energy Storage	h	* aa 0 *	Esseritas Add.On BardBiv Safety Alarma Bit TimerCounter InvolOutroit Commans Committellath Moved opical Electrics	
E 1/0 Ottline I. No Porces	P <sub>v</sub> No Edits et.		татопье настоя налон завису налие от типосовлю проговра соправ соправляви потосорси полнос тисе	
Controller Organizer V 4 X				
Controller E2_AC     AC     Controller Tags				
Controller Fault Handler				
Power-Up Handler				
4 🛁 Tasks				
Main lask				
Unscheduled				
A 🛁 Motion Groups				
Ungrouped Axes				
🕨 💼 Alarm Manager				
Add-On Instructions				
A G Data Types				
1 User-Defined				
Viti Strings				
Add-On-Defined				
P In Predefined				
Trends				
The Logical Model				
a 🛁 I/O Configuration				
✓ ■ 5069 Backplane				
[U] 5009-L350ERM E2_AC				
Type 5069-L330ERM CompactLogix™ 5380				
Description				
Major Fault				
Minor Fault				
	from			
	Errors			***
	CO Errors	0 Warnings 🚺	0 Messages	Search 🔎
	1			
< >	1			
1 Controller Organizer	1			
Search Results Watch				

図 1.1.4

### 1.2 IP 設定

1. メインウィンドウで「Who Active」アイコンをクリックします。



図 1.2.1

2. USB インターフェースの下にあるコントローラー設定アイコンを選択します。



図 1.2.2

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#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

通信とモジュールのセットアップ

3. ネットワークケーブルの接続構成に基づいて、[Port] を選択し、[Manually configure IP settings] を 選択して、物理デバイスの IP アドレスとサブネットマスクの設定を完了します。次に、[Apply] を クリックします。

		MB0364!Backplane\16	×
		Internet Protocol Port Configuration IP Mode CIP Security LLDP	^
I Who Active (FactoryTalk Linx)	– 🗆 X	Manually configure IP settings	
Image: Control of the second seco	Go Online Upload Download Update Firmware Close Help Set Project Path Clear Project Path	Obtain IP set ings automatically using BOOTP         Obtain IP settings automatically using DHCP         Physical Device IP Address:       Subnet Mask:         192.168.1.1.111       255.255.0.0.0         Gateway Address:       Primary DNS Server Address:         0.0.0.0       Primary DNS Server Address:         0.0.0.0       Primary DNS Server Address:         0.0.0.0       Host Name:         Refresh       Apply	
			•
		Q, Q, 11	00% <u>⁄⁄/</u>

図 1.2.3

# 1.3 EDS ファイルのインストール

1. メイン ウィンドウで [Tools] → [EDS Hardware Installation Tool] をクリックして、EDS ファイル をインストールします。



図 1.3.1

EDS ファイルのインストールを開始します。「Next」をクリックします。 2.



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通信とモジュールのセットアップ

3. 「Register an EDS file(s)」を選択し、「Next」をクリックします。

Rockwell A	Automation's EDS Wizard		$\times$
Option What	s at task do you want to complete?		
	<ul> <li>Register an EDS file(s).</li> <li>This option will add a device(s) to our database.</li> </ul>		
<b>(</b>	C Unregister a device. This option will remove a device that has been registered by an EDS file from our database.		
×	C Create an EDS file. This option creates a new EDS file that allows our software to recognize your device.		
	${\bf C}$ . Upload EDS file(s) from the device. This option uploads and registers the EDS file(s) stored in the device.		
		< 上一步(B) 下一步(N) > 取満	

図 1.3.3

「Register a single file」を選択し、「Browse…」をクリックして EDS ファイルのソースパスを選択します。

Rockwell Automation's EDS Wizard	×
Registration Electronic Data Sheet file(s) will be added to your system for use in Rockwell Automation applications.	Į.
Register a single file     C Register a directory of EDS files     Look in subfolders	
Named: Browse	
• If there is an icon file (.ico) with the same name as the file(s) you are registering then this image will be associated with the device. To perform an installation test on the file(s), click Next	
<上一步(B) 下一步(N) > 取	消

図 1.3.4

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通信とモジュールのセットアップ E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

E2 EtherNet/IP ドライバーの EDS ファイルのソース パスは C:\Thunder\doc\EDS Files です。



図 1.3.5

最新のファームウェア バージョンの EDS ファイルを選択し、「Next」をクリックします。

Rockwell Automation's EDS Wizard	×
Registration Electronic Data Sheet file(s) will be added to your system for use in Rockwell Automation applications.	
Register a single file	
C Register a directory of EDS files 🛛 Look in subfolders	
Named:	
C:\Thunder\doc\EDS Files\HIWINMIKROSYSTEM_ED2F_20240712.eds Browse	
* If there is an icon file (.ico) with the same name as the file(s) you are registering then this image will be associated with the device.	
To perform an installation test on the fil	e(s), click Next
< 上一步(B) 7	下一步(N) >     取消

図 1.3.6

#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000 通信とモジュールのセットアップ

5. ロードする EDS ファイルを確認し、「Next」をクリックします。

Rockwell Automation's EDS Wizard	×
EDS File Installation Test Results This test evaluates each EDS file for errors in the EDS file. This test does not guarantee EDS file validity.	
Installation Test Results └✔ c\thunder\doc\eds files\hiwinmikrosystem_ed2f_20240712.eds	
View file < 上一步(B) 下一步(N) > 取消	

図 1.3.7

EDS ファイルがロードされると、E2 ドライバーが認識されます。[Next] をクリックします。 6.

Rockwell Automation's	EDS Wizard			×		
Change Graphic Image You can change the graphic image that is associated with a device.						
	Product Types					
Change icon	Vendor Specific Type					
	1					
			< 上一步(B) 下一步(N) >	取消		

図 1.3.8

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7. E2 ドライバーが認識されたことを確認したら、「Next」をクリックします。

Rockwell Automation's EDS Wizard	×
Final Task Summary This is a review of the task you want to complete.	
Vou would like to register the following device. ED2F servo drive	
< 上一步(B) 下一步(N) > 目	2.11

図 1.3.9

EDS ファイルが正常にインストールされます。 8.



図 1.3.10

# 1.4 Thunderの EtherNet/IP 設定ウィンドウを設定する

Thunder のメニューバーで [Tools] を選択し、[EtherNet/IP setup] をクリックして [EtherNet/IP setup] ウィンドウを開きます。



図 1.4.1

- 2. IP アドレスを設定し、サブネット マスクを設定し、IP モードを Static として選択して、[Apply] を クリックします。[Status] 列の情報が [Configuration] 列の情報と同じであれば、設定は完了です。
  - 注意: ドライバーの IP アドレスとコントローラーの IP アドレスを同じドメインに設定しないと、通信が正常 に確立されません。

🛃 EtherNet/IP setup			- 🗆 X
Network Ext. I/O data			
Configuration —		┌── Status ─────	
IP address	192 . 168 . 0 . 50	IP address	192 . 168 . 0 . 50
Subnet mask	255 . 255 . 255 . 0	Subnet mask	255 . 255 . 255 . 0
Default gateway	0.0.0.0	Default gateway	0.0.0.0
IP mode :	Static 🗸	IP mode	Static
Apply			

図 1.4.2

# 1.5 デバイスを PLC に接続する

1. メインウィンドウの「Who Active」アイコンをクリックして、デバイスを PLC に接続する方法を 選択します。



図 1.5.1

2. USB インターフェースの下にあるコントローラーを選択し、「Go Online」をクリックします。



図 1.5.2

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3. 「Download」をクリックします。

Connect	ed To Go Online		×
Options	General Date/Tim	e Major Faults Minor Faults Project Nonvolatile Memory	
Conditio	on: The open project	doesn't match the project in the controller.	
Connec Offline I	ted Controller: Controller Name: Controller Type: Comm Path: Serial Number: Security: Project: Controller Name:	E2_AC_USB 5069-L330ERM/A CompactLogix <sup>**</sup> 5380 Controller Backplane\16 7074ADB6 No Protection E2_AC	
	Controller Name. Controller Type: File: Serial Number: Security:	L2C_ 5069-L330ERM CompactLogix" 5380 Controller s\super99056\Documents\Studio 5000\Projects\E2_AC.ACD <none> No Protection</none>	
	Online edits perfo	rmed during upload may prevent upload from completing. online edits during upload.	
		Download Select File Cancel H	lelp

図 1.5.3

4. 「Download」ウィンドウで「Download」をクリックします。



図 1.5.4

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通信とモジュールのセットアップ E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

#### 5. メインウィンドウのステータスが点灯すれば、接続が正常に構築されています。

n Mode	4 4 5	<u>- 12</u> - 22 - 03		મ નગ ન મે નોમે નોમે						
ergy Storage OK	▶. No Edits		Favorites Add-On	Alarms Bit Timer/0	Counter Input/Output Compar	e Compute/Math Move	e/Logical File/	/Misc. File/Shift Sequencer F		
ller Organizer 74 X	MainProgram - MainB	outine 🧳 Progra	m Parameters and Local Tags - Ma	inProgram × 🧟 G	ontroller Tags - F2 AC(contro	er)				
	Second L. Majo Dinaram	Show: All Tar						ister Name Filter .		
Controller E2 AC	scope. p maninogram	· anow. An log					* <u>Iv</u>			
Ø Controller Tags	Name 📰 🔺	Usage V.	lue • Force Mask	<ul> <li>Style</li> </ul>	Data Type	Description	Constant		Properties	
Controller Fault Handler	hMethod	Local	33	Decimal	DINT				11: 및4 🔎 🎶 Exte	nded Properties
Power-Up Handler	hMSF	Local	()	()	H_MSF	HIWIN MIKROSYSTE			∡ General	
Asks Asia Tack	hMSG_Read	Local	{}	{}	MESSAGE				Name	hWriteValue
A b MainProgram	hMSG_Write	Local	()	{}	MESSAGE				Description	1
Parameters and Local Tags	► hMSO	Local	()	()	H_MSO	HIWIN MIKROSYSTE			Time	Race
MainRoutine	hOutputData	Local	()	() Decimal	INT[32]				Alias For	Dase
Unscheduled	hParm_NO	Local	8448	Decimal	INT				Base Tag	
Motion Groups	hParm_SubINDEX	Local	0	Decimal	SINT				Data Type	DINT
Alarm Manager	hParmRead Single	Local	£_3	6.3	H ParmRead Single	Read a HIWIN MIKRO			Scope	MainProgram
D. Alarms	b bParmWrite Single	Local	()	()	H ParmWrite Single	Write a HIWIN MIKR			External Access	Read/Write
Q. Alarm Definitions	<ul> <li>hDavisian</li> </ul>	Local	()	Desired	Data	TTTLE & THEFT THE THEFT			Style	Decimal
Assets	P IIPosicion	Local	1000	Decimal	DINT				Constant	No
logical Model	nkeadvalue	Local	1000	Decimal	DINI		-		Visible	
5069 Backplane	hReadValue_Real	Local	0.0	Float	REAL				Alarms	0
NO 101 5069-L330ERM E2 AC	hSearchSwitchSpe	Local	83886080	Decimal	DINT				> Data	
A1, Ethernet	hSearchZeroSpeed	Local	8388608	Decimal	DINT				Produced Connection	m
5069-L330ERM E2_AC	hSetRelativeMove	Local	0	Decimal	BOOL				Consumed Connect	on
E2 E2	hSpeed	Local	0	Decimal	DINT				<ul> <li>Parameter Connect</li> </ul>	ions {0:0}
AZ, Ethernet	hTargetTorque	Local	0	Decimal	INT					
DUG-LISUERM EZ_AC	hTorqueOffset	Local	0	Decimal	INT					
	hTorqueSlope	Local	0	Decimal	INT					
	hTriggerCondition	Local	0	Decimal	BOOL					
	hTriggerEdge	Local	0	Decimal	BOOL					
	h blelocity	Local	0	Decimal	DINT					
	> Invessely	Local		Decimal	INT					
	> hwancode	Local	0	Decimal	DUIT					
	NWINdowOr_PC	Local	0	Decimal	DINT					
	> hWnteValue	Local	1000	Decimal					~	
	(Monitor Tags A	Louid Tags /								
	Errors									
	O Errors	4 0 Wa	nings 0 of 1 Messages						Search	
	Complete = 0 error(e)	0 warning/=1								
	compacts 0 error(s)	,								

図 1.5.5

2.1	軸を作成する	2
-----	--------	---

# 2.1 軸を作成する

メイン ウィンドウで、A1、Ethernet を右クリックし、[New Module....] を選択します。
 注: 実際の接続構成に基づいて、A1 または A2 に軸を作成します。

🖉 Logix Designer - E2,AC (5069-L330ERM 34.11)	- 6	δ×
File Edit View Search Logic Communications Tools Window Help		
N S S S S S S S S S S S S S S S S S S S		
■RNN ***********************************		
III Seevy Strates Ads On PairdRx Safety Atarms Bit Timet/Coattar Republication Compare Compute/Nam MoveLagoal PlanMac. Filed		
Controller Organizer v 7 x		
G ==		
Power-Up Handler		
A we also		
E MainProgram		
■ Unscheduled		
Ungrouped Axes		
▶ Marm Manager All Control Co		
Add-On Instructions		
▲ ⊆ Data Types		
ing Gard-Gening		
iii Add-On-Defined		
▶ K tractined		
Tends		
S. Logical Model		
4 🚍 509 Backplane		
g (i) Xx0+3308MHz_AC		
Solo-130EPM 62,AC     Second Madule		
▲ a λ2 themet in proritematic in interactionalize Eli 5004-338ERM E2 AC Discourt Modules		
Bre Stee Chi+V		
uusuu		
2006		+ 4 X
Contract A OWarmings O OMessages	Search	Q
The Controller Organizer		
Search Regultz / Watch		

図 2.1.1

2. この時点で、「Select Module Type」ウィンドウがポップアップ表示されます。右側の列にあるすべてのオプションのチェックを外します。

Enter Search Text for Mod	dule Type	Clear	Filter	3		Hide Filters	*
Module Type Cate 20 - Comm-ER Analog CIP Motion Safety Communication	yory Filters Track Section	^ ~		Module Type Ve Advanced Energy Bray Internations Buerkert Fluid Co Dialight	endor Filters y Industries, Inc. ıl, Inc ontrol Systems		~ ~
Catalog Number 1420-V1P-ENT 0001_0073_010D 0005_0078_010D 0005_007B_0030 0005_007B_0038 <	Description Powermonitor 500 48MS-SN1PF1-M2 48MS-SN1PF2-M2 SP600 SP600 ER 400V SP600 ER 400V				Vendor Rockwell Autom Rockwell Autom Rockwell Autom Rockwell Autom Pockwell Autom	Category PowerMonitor Rockwell Auto Rockwell Auto DPI to EtherNe DPI to EtherNe	501 ma t/II t/II >

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パラメーターの設定

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Select Module Type		
Catalog Module Discovery Favorites		
Enter Search Text for Module Type	Clear Filters	Hide Filters 🛠
Module Type Category Filters       20 - Comm-ER       Analog       CIP Motion Safety Track Section       Communication	Module Type Vendor Filters     Advanced Energy Industries, Inc.     Bray International, Inc     Buerkert Fluid Control Systems     Dialight	~
<ul> <li>Catalog Number</li> <li>Description</li> </ul>	Vendor	Category
0 of 820 Module Types Found		Add to Favorites
Close on Create	Create	Close Help

図 2.1.3

3. HIWIN MIKROSYSTEM CORP.を選択すると、E2 ドライバーが表示されます。

Select Mc	odule Type Module Discovery Favor	ites			
Ente	er Search Text for Module T	ipe	Clear Filters		Hide Filters 🛠
SISIS S	Module Type Category F 20 - Comm-ER Analog CIP Motion Safety Track : Communication	ilters Section	Module T Hiprom Te HIWIN MI HMS Indu:	rpe Vendor Filters chnologies KROSYSTEM CORP. trial Networks AB nelosures	
<			> <	- ···	>
-	Catalog Number	Description		Vendor	Category
	E2	ED2F servo drive		HIWIN MIKRO	Generic Device (key
<					>
1 of 8	320 Module Types Found				Add to Favorites
□ cı	lose on Create			Create	Close Help

図 2.1.4

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パラメーターの設定

4. 「Create」をクリックし、「New Module」ウィンドウで名前とプライベート ネットワークの設定を 完了します。

プライベート ネットワークの IP 設定はドライブの IP 設定と同じである必要があります。そうで ない場合、通信が正常に確立されません。





5. 「New Module」ウィンドウで「Change」をクリックし、「Module Definition」ウィンドウでサイズ に INT を選択して、「OK」をクリックします。

	🔝 New Module	$\times$
Select Module Type	General General	
Cetables       Module Discovery Fevorates         Enter Search Text for Module Type       Cetar Filters         Hodule Type Category Filters       In Module Type Vendor Filters         20 - Commercian       In Module Type Vendor Filters         20 - Commercian       In Module Type Vendor Filters         Externation       In Module Type Vendor Filters         C1P Modon Starty Tack Section       In Module Type Vendor Filters         C1P Modon Starty Tack Section       In Module Type Vendor Filters         C C1P Modon Starty Tack Section       In Module Type Vendor Filters         C C1P Modon Starty Tack Section       In Module Type Vendor Filters         C C1P Modon Starty Tack Section       In Module Type Vendor         Commension       Vendor         Constance       Add to Evocates         I of 620 Module Types Found       Center         Constance       Lobe	Statu: Creating       OK       Cancel       Help	





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パラメーターの設定

図 2.1.7

6. 「Logix Designer」ウィンドウで「Yes」をクリックし、「New Module」ウィンドウで「OK」をクリックします。

		-General*	General		
Lect Module Type       Cethols     Module Discovery       Enter-Search Text for Module Type       Module Type Category Filters       20 - Comme ER       Made       Crip Moden Safety Track Section       Communication       Communication	Clear Fahrn Hide Fahrn R Motale Type Yeador Fahrs Highern Technologies HIWTM MIK ACOTTETEM CORP. Logix Designer Logix Designer There changes will cause module data types and propr Data will be set to default values unless in can be record Verify module properties before Applying changes.	Hornection     Time Spic     Module Info     Module Info     Module Info     Module Info     Module Info     Module Info     Metwork      Hetwork      Hetwo	Type: Vendor: Parent: Name: Description: wperries. de Defini sion:	Revision: 0010000000000000000000000000000000000	et Address vate Network: 152.168.1. 10 2 Address: .
< 1 of 820 Module Types Found Close on Creste	Change module definition? Yes No Add to Revoites Close Close Help	Satus: Creating	tranic Ke	OK Cancel Hep Change	OK Cancel He



	I New Module X
Select Module Type	General General General
Select Module Type Cetalog Module Discovery Favorite  Enter Search Test for Module Type Cetagory Filers  Module Type Cetagory Filers  Module Type Cetagory Filers  Cetalog Module Type Cetagory Filers  Cetalog Kindon Safety Tack Section  Communication  Cetalog Number Description E2 ED2 Pavo drive HWINI MIKRO.  Cetagory  HWINI MIKRO.	Concector* Type: E2 ED2F servo drve Module Hot* Name: E2 Descriptor: Module Definition Module Definition Module Definition Module Definition
< I of 200 Module Type: Found Add to Fe Close on Create Close Clos	Bectronic Keying:     Compatible Module       Connections:     Exclusive Dwmer       Othange     Othange       Brilp     Status: Creating

図 2.1.9

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<u>パラメーターの設定</u>

7. 「Select Module Type」ウィンドウで「Close」をクリックします。

elect Mo	odule Type							
Catalog	Module Discovery Favor	ites						
Ente	er Search Text for Module Tj	vpe	Clear	Filters	•		Hide Filters	*
	Module Type Category F 20 - Comm-ER Analog CIP Motion Safety Track & Communication	liters Section	^		Module Type Ve Hiprom Technolo HIWIN MIKROS HMS Industrial N Hoffman Enclosu	endor Filters ogies YYSTEM CORP. letworks AB ures		^
			/	<b>`</b>		1		-
	Catalog Number	Description				Vendor	Category	
	62	ED2F Servo anve				HIWIN MIKKO	Generic Devic	e (Keya
<								>
1 of 8	320 Module Types Found						Add to Fav	vorites
□ Cl	lose on Create					Create	Close	Help

図 2.1.10



🗵 2.1.11

# 3. 関数ブロックを作成する

アドオン指示書 (AOI) のインポート	3-2
コントローラーのセットアップ手順	3-4
3.2.1 軸通信	3-4
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	<ul> <li>アドオン指示書 (AOI) のインポート</li></ul>

# 3.1 アドオン指示書 (AOI) のインポート

1. HIWIN MIKROSYSTEM の公式 Web サイトから EtherNet/IP の機能ブロックとマニュアルをダウンロードします:

機能ブロック (AOI): Rockwell Studio 5000 を使用した EtherNet IP

2. メイン ウィンドウで、[Assets] を展開し、[Add-On Instructions] を右クリックして、[Import Add-On Instruction....] を選択します。

Jogix Designer - E2_AC [5069-L330ERM 34.	.11]*					- 6 ×
File Edit View Search Logic Comm	unications Tools Window H	Help				
1 🖕 🖬 🖨 X (1 A) 2 C 📃	v 🍫 🤹	5 / D & D & B &	C 10 C C			
= RUN						
III OK PAIA: <none></none>		N 35 0		F 4/F ( ) (U) (L)	P	
III 1/0 Offline II - No F	Forces . No Edits	<u>a</u> .	A P Pavorites Add-C	PlanthAx Satety Alarma Bit Timer/Counter Input/Output Compare Comp	puterMath Move/Logical File/Misc. File/2	
Controller Organizer +	₹ ×					
6" "I						
Power-Up Handler	^					
A MainTask						
P 5 MainProgram						
🛑 Unscheduled						
4 🖼 Motion Groups						
Ungrouped Axes						
A GASSets						
Add-On Instructions	(2) New Add-Oo Instruction	P				
🔺 🖳 Data Types	Import Add-On Instruction					
User-Defined	importation on instructions.					
Add. On-Defined	X Cut	Ctrl+X				
P Redefined	C Copy	Ctrl+C				
Module-Defined	D Paste	Ctri+V				
iii Trends	Paste With Configuration	Ctri+Shift+V				
Sk Logical Model ▲ ⊆ I/O Configuration						
A 📾 5069 Backplane						
[0] 5069-L330ERM E2_AC						
A 💑 A1, Ethernet						
E0 5069-L330ERM E2_AC						
A 2 A2 Ethernet						
	•					
	Errors					+ a ×
			•			
	0 Errors	U Warrings	U Messages			Search
٢	>					
1 Controller Organizer						
Search Results Watch						

図 3.1.1

3. 「HIWIN\_MIKROSYSTEM\_AOIs\_vx.x.L5X」 という名前のファイルを選択し、「Open」をクリック します。

💰 Import Add	-On Instruction			×
Look in:		~ <b>G</b>	• 🖽 🍤 🐧	
Quick access	Name	ACSYSTEM_AOIs_v1.1.L5X	Date modifi 2024/7/3 下	ied 午 02:42
Desktop				
Libraries				
This PC	4			,
Network	File name: Files of type:	HIWIN_MIKROSYSTEM_AOIs_v1.1.L5X	~	Open Cancel
				Help

HIWIN. MIKROSYSTEM MD46UJ01-2507

関数ブロックを作成する

#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

4. 「OK」をクリックして AOI をインポートします。

Import Configuration - HIWIN_MIK	ROSYSTEM_AOIs_v1.1.L5X	×
Find: Find Within: Final Name	→ A A Find/Replace	
Import Content:		
- Add-On Instructions Public Instructions References - C Add-On Instructions - C Errors/Warnings	Configure Add-On Instructions         Imported Instructions:       17 selected, 0 others as references         Imported instructions and other references will be imported as configured in the References folders	
	OK Cancel Help	
Ready		

図 3.1.3

5. インポートが完了すると、メイン ウィンドウの Add-On Instructions の下にサポートされている AOI が表示されます。



図 3.1.4

HIWIN. MIKROSYSTEM MD46UJ01-2507

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# 3.2 コントローラーのセットアップ手順

#### 3.2.1 軸通信

この機能ブロックは、ドライブモーションとパラメーター IO のデータ転送に使用されます。

- (1) 各機能ブロックを使用する前に、まず軸通信設定を完了し、命令が有効状態になっていることを確認してください。
- (2) 軸ごとに軸通信(H\_ACOMM)命令により伝送チャネルを作成する必要があります。

注意:

AOI の詳細な命令説明と設定上の注意事項については、「Rockwell Studio 5000 を使用した E2 EtherNet/IP ドラ イバーの機能ブロック (AOI) アプリケーション マニュアル」を参照してください。

1. メイン ウィンドウの [Tasks] → [MainTask] → [MainProgram] を展開し、[MainRoutine] をダブ ルクリックして手順の編集を開始します。

Logix Designer - E2_AC [5069-L330ERM 34.11]*		- 8 ×
File Edit View Search Logic Communicat	ons Tools Window Help	
5 🖕 🖬 🖶 🗴 🗗 🏹 🤊 🤆	✓ >> 参 // 10 8 出 G 留 G G	
ERUN OK Path: Backplane\16*	Sease ← H H H + + + + + + + + + + + + + + + +	
Energy Storage	Ive Edits d. 4 + Favorities Add-On Alarms Bit TimeriCounter hput/Output Compare Compute/Math MoveLogical File/Mint Sequencer F	
Controller Organizer 🗢 🕈 🗙	目 MainProgram - MainRoutline* ×	-
0 1		
Controller E2_AC     Controller Tags		^
Controller Fault Handler		
Power-Up Handler		
🔺 🖓 MainTask	(1/200)	
A La MainProgram Parameters and Local Taps		
MainRoutine		
Unscheduled		
Ungrouped Axes		
P Alarm Manager		
Add-On Instructions		
Trends		
b. Logical Model		
A  5069 Backplane		
[0] 5069-L330ERM E2_AC		
5069-L330ERM E2_AC		
E2 E2		
5069-L330ERM E2_AC		
		×
		- 11 -
		Search O
	Conclete - 0 varinity - 0 varin	2008/01
Tune Ladder Diagram (Main)		
te Controller Organizer	<	>
Search Results Watch		
Peadu	Communication Software: Faston Talk Liev	

🗵 3.2.1.1

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E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

<u> 関数ブロックを作成する</u>

2. MainRoutine プロシージャを右クリックし、[Add Ladder Element....] を選択します。

Logix Designer - E2_AC [5069-L330ERM 34.11]*								- 8 ×
File Edit View Search Logic Communication	ions Tools Window Help	, ,						
🦄 🖕 🖶 😹 🗗 ନି 🖉 🖉 🖉	v 🐤 🎓 j	🕨 📐 🕞 🔈 🐨 🕷	0.0					
RUN Path: Backplane\16*		1 # 1 I -		{u} {L}				
Energy Storage Offline No Forces	▶_ No Edits	8. 4 ) Fa	vorites Add-On Alarma Br	Timer/Counter Input/Output Compa	e Compute/Math Move/Logical File/Misc. File/Shift	Sequencer F		
Controller Organizer 🚽 🔻 🛪	🗏 MainProgram - MainRo	outine" ×						÷
J 12	44 11 5 7 5	() no () · · · · ·						
Controller E2_AC     Controller Tage								^
Controller Fault Handler		L Cut Rung	Ctrl+X					
Power-Up Handler		D Paste	Ctrl+C Ctrl+V					
A C MainTask	(End)	Delete Runo	Del					
MainProgram     December and local Text		Add Rung	Ctrl+R					- E
MainRoutine		Edit Rung	Enter					
Unscheduled		Edit Rung Comment	Ctrl+D					
iii Ungrouped Axes		Export Rungs						
P # Alarm Manager A C Assets		Start Pending Rung Edits	Ctrl+Shift+S					
Add-On Instructions		Accept Pending Rung Edits						
Data Types Trends		四 Cancel Pending Rung Edits						
bs Logical Model		🖂 Assemble Rung Edit						
<ul> <li>I/O Configuration</li> <li>S069 Backplane</li> </ul>		La Cancel Rung Edit						
[0] 5069-L330ERM E2_AC		Verify Rung						
A and A1, Ethernet 5069-L330ERM E2_AC		Go To	Ctrl+G					
E2 E2		Add Ladder Element	Alt+Ins					
A2, Ethernet 5069-L330ERM E2_AC								
	1							~
	1		_				_	
	Errors							÷ † ×
	O Errors	A 0 Warnings	0 Messages				Search	م
	Complete - 0 error(s),	0 warning(s)						-
1 adder Dianram (Main)	4							
Search Results 🔊 Watch								
Add a Ladder Element using the Ladder Element Brow	vser Dialog					Communication Software: FactoryTalk Lin		APP VER -

図 3.2.1.2

「Add Ladder Element」ウィンドウで、H\_ACOMM 命令を選択し、「OK」をクリックします。

Logix Designer - E2_AC [5069-L330ERM 34.11]*			
File Edit View Search Logic Communication	ons Tools Window Help		
ରେ 🖕 🖴 😸 🗗 ର 🤊 ୯ 🔤	< かち声 b な 出 G 後 金 G C		
BRUN THE Path: Backplane\16*	S S S I LI L		
Energy Storage Offline No Energy	kan Fahr 2 + Favorites Addon Akrms Bt TimerCounter HouldOutput Compare ComputerMath NoveCopical FileNisc. FileShift Sequencer F		
Controller Organizer + 3 ×	MainProgram - MainRoutine" x		-
<i>帝</i> 階	4.4 H 2 4.2 H 10 10 + m		
🔺 📹 Controller E2_AC			
Controller Tags     Controller Exult Handler			
Power-Up Handler			
A C Tasks	(End)		
A b MainProgram			
Parameters and Local Tags			
Unscheduled	T Add Ladder Element X		
4 📹 Motion Groups			
Ungrouped Axes	Lader Benerit: H_ACOMM Instruction Help >>		
🔺 🔛 Assets	Name Description		
Add-On Instructions     Data Types			
iii Trends	- + et al. ACCMM. HINTYN MIKROSY'S TEM Awn. Com.		
Logical Model	++++, MAH HIWIN MIKROSYSTEM Avis Hom		
4 📾 5069 Backplane			
[0] 5069-L330ERM E2_AC			
5069-L330ERM E2_AC	< >>>		
E2 E2	☑ Show Language Bernada By Gauge OK		
5069-L330ERM E2_AC	Cancel		
	New Add On Instruction. Help		
			~
			÷
	Errors		+ # ×
	C DEros 4 OWarnings 0 OMessages	Search	P
	Complete - 0 error(s), 0 warning(s)		^
Tune Ladder Dianram (Main)	1		
1 Controller Organizer			>
Search Results 😹 Watch			
Ready	Communication Software: FactoryTalk Linx	Rung 0 of 1	

🗵 3.2.1.3

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#### <u>関数ブロックを作成する E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000</u>

Logix Designer - E2_AC [5069-L330ERM 34.11]*			- 8 ×
File Edit View Search Logic Communicati	ns Tools Window Help		
5 ⊆ ≌   ↔   X □ 0   ? <	S S S S S S S S S S S S S S S S S S S		
Box Path: Backplane\15*	♣ 品 ◎ < ⅠⅠ □□ □ ++ ++ <> @> @>	<b>&gt;</b>	
III Energy Storage Offline I. No Forces	▶ No Edits Q. Fevorites Add-On Alarms Bit Timer/Counter Input/Dutput Compare Compute/Nath Move/Logical File/Mac. File/Shift Sequence	cer P	
Controller Organizer - 🕈 🛪	□ MainProgram - MainRoutine* ×		•
5 T			
Controller E2_AC     Controller Tags		H_ACOMM H_ACOMM	?
iii Controller Fault Handler		InputData OutrotData	? -(EN)-
Power-Up Handler		H_Axis	-(PLCControllable)-
MainTask		Connector a died	?? -(Err)
A b MainProgram		ErrCode	?? -(Warn)
MainRoutine		WarnCode	? ??
iii Unscheduled			
Motion Groups     Ungrouped Axes			
🕨 💼 Alarm Manager	(End)		
Assets     Add-On Instructions			
Data Types			
Trends			
▲ ⊆ I/O Configuration			
A  5069 Backplane			
A1. Ethernet			
5069-L330ERM E2_AC			
E2 E2			
5069-L330ERM E2_AC			
_			
			~
	4		
			<del>~</del> ₽ ×
	C 0 Errors 🔥 0 Warrings 0 0 Messages	Search	م م
	Complete = 0 error(s), 0 warning(s)		^
Type Ladder Diagram (Main)			
T= Controller Organizer	c		>
Search Results 🐺 Watch			
Ready		Communication Software: FactoryTalk Linx Ru	ng0of1 APP VER -

図 3.2.1.4

3. H\_ACOMM 命令を作成します。疑問符が 1 つ表示されている項目をダブルクリックして、変数名 を設定します。

H_ACOMM			H_ACOMM		
H_ACOMM	?		H_ACOMM	hACOMM	
InputData	?	-(EN)	InputData	hinputSata	-(EN)-
OutputData	?		OutputData	hOutputData	18 (30)
H_Axis	?	-(PLCControllable)-	H_Axis	hAxis	-(PLCControllable)-
ConnectionFaulted	?		ConnectionFaulted	hConnectFaulted	
	??	-(Err)		??	-(Err)
ErrCode	?		ErrCode	hErrCode	
	??	-(Warn)-		??	-(Warn)-
WarnCode	?		WarnCode	hWarnCode	
	??			??	

図 3.2.1.5

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<u>関数ブロックを作成する</u>

4. セット名を持つ変数を右クリックし、[New] を選択して定義します。(セット名を持つすべての変数 に対してこの手順を実行する必要があります。)



図 3.2.1.6

New Parame	ter or Tag	×
Name:	hACOMM	Create 🛛 🗸
Description:		Cancel Help
Usage:	Local Tag	$\sim$
Type:	Base ~ Connection	1
Alias For:		$\sim$
Data Type:	H_ACOMM	
Parameter Connection:		~
Scope:	🔓 Main Program	~
External Access:	Read/Write	$\sim$
Style:		$\sim$
Constant		
Sequencing	1	
Open Confi	guration neter Connections	

🗵 3.2.1.7

<u> 関数ブロックを作成する</u>

#### 5. 変数の設定が完了すると、次の図が表示されます。



6. H\_ACOMM 命令の InputData、OutputData、および ConnectionFaulted は、E2 ドライバーモジュー ルのタグ I.Data、O.Data、および I.ConnectionFaulted にリンクされている必要があります。 変数を ダブルクリックし、図 3.2.1.9~図 3.2.1.11 の構成を参照してください。

	Axis Comm	tion					
H ACOM	liistruc	20011.					
H_ACOMN	1	hACOM	М	1			_
nputData	E2:I.Data		~	-(EN	>		
	Enter Name Filter	~ 5	Show:	All Tag	s		
Con	Nama		L		-al	Data Tur	
TrrC B						06BA-F	2 A
	E2:1 ConnectionE	aulted				BOOL	~
var 🖸	▶ E2:LData					INTI321	
	E2:0		_			06BA:E	2 8
	HAcceleration	Γ	Name	e: E2:1.	Data	T	-
SH	now controller tags		Data Descr	Type: iption	NT[3	2]	
	now Main Program tags	L				_	
	ion main rogram tags						
Show	parameters from other	program					
<non< td=""><td>ie&gt;</td><td></td><td></td><td>V</td><td></td><td></td><td></td></non<>	ie>			V			
		3.2.	1.9				
	HWIN MIKR( Axis Comm instruc	3.2. OSYSTEI Junication	1.9				
	HIWIN MIKRO Axis Comm instruc	3.2. DSYSTEI nunication ction.	1.9				
LACOMI 1_ACOMI nputData	HIWIN MIKRO Axis Comm instruc	3.2. DSYSTEI unication tion. hACOM E2:1,Da	1.9				
I_ACOMM I_ACOMM nputData DutputData	HIWIN MIKRO Axis Comm instruc 4 a E2:0.Data	3.2. DSYSTEI unication tion. hACOM E2:1.Da	1.9	] -< EN	~		_
ACOMI ACOMI nputData DutputDat Avie Con T.	HIWIN MIKR Axis Comm instruc M a E2:O.Data Enter Name Filter	3.2. DSYSTEI unication ction. hACOM E2:1.Da	1.9 M ta Show:		)	nilahla	
ACOMI ACOMI putData DutputDat Con T.	HIWIN MIKRO Axis Comm instruc A a E2:0.Data Enter Name Filter Name	3.2. DSYSTEI uunication tion. hACOM E2:I.Da	1.9 M ta Show:		>	Data Tyr	De
ACOMI ACOMI putData DutputDat Con T.	HIWIN MIKRO Axis Comm instruct A a E2:0.Data Enter Name Filter Name 4 E2:0	3.2. DSYSTEI uunication tion. hACOM E2:I.Da	1.9 M ta		) S ===	Data Typ _06BA:E	De 2_8
ACOMI ACOMI nputData DutputDat Con T.	HIWIN MIKR Axis Comm instruct A a E2:0.Data Enter Name Filter Name 4 E2:0 > E2:0.Data	3.2. DSYSTEI unication tion. hACOM E2:LDa	1.9 M ta	All Tag	)	Data Typ _06BA:E	De 2_8
ACOMI ACOMI putData DutputDat Con T.	HIWIN MIKR Axis Comm instruc a E2:0.Data Enter Name Filter Name a E2:0 b E2:0.Data HAcceleration	3.2. DSYSTEI unication. hACOM E2:1.Da	1.9 M M M Show:		)— S ===	Data Typ _06BA:E INT[32] DINT	De 2_8
ACOMI ACOMI putData DutputDat AAvie Con T GrrC	HIWIN MIKR Axis Comm instruct a E2:0.Data Enter Name Filter Name A E2:0 b E2:0.Data HAcceleration b hACOMM	3.2. DSYSTEI nunication tion. hACOM E2:1Da	1.9		)	Data Typ _06BA:E INT[32] DINT me: E2:1	De 2_8
ACOMM ACOMM hputData DutputDat Con T.	HIWIN MIKRO Axis Comm instruct a E2:0.Data Enter Name Filter Name a E2:0 b E2:0.Data HAcceleration b hACOMM b hAxis	3.2. DSYSTEI nunication tion. hACOM E2:1Da	1.9		>	Data Typ _06BA:E INT[32] DINT me: E2: a Type:	0.D
ACOMI ACOMI ACOMI InputData DutputData Con T.	HIWIN MIKRO Axis Comm instruct a E2:0.Data Enter Name Filter Name • E2:0 • E2:0.Data HAcceleration • hACOMM • hAxis now controller tags	3.2. DSYSTEI uunication tiion. hACOM E2:LDa	1.9 M	J -CEN All Tag	S S National Data	Data Typ O6BA:B INT[32] DNT me: E2: a Type: cription	0.D 0.D 1N1 n:
H_ACOMM ACOMM nputData DutputDat Son T. SrrC	HIWIN MIKRO Axis Comm instruct a E2:0.Data Enter Name Filter Name A E2:0 b E2:0.Data HAcceleration b hACOMM b hAxis how controller tags mow MainProgram tags	3.2. DSYSTEI unication tion. hACOM E2:1Da	1.9 M Show:		S S Nat Dat	Data Typ 	0.D
ACOMI ACOMI nputData DutputDat Con T. Var I SirrC Si Show	HIWIN MIKRC Axis Comm instruct a E2:0.Data Enter Name Filter Name E2:0 E2:0.Data HAcceleration Acceleration	3.2. DSYSTEI unication. hACOM E2:I.Da	1.9 M Show: [		S S Nat Dat	Data Typ 06BA:B INIT[22] DINT me: E2: Cription	0.D. 0.D. : IN1 n:

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<u> 関数ブロックを作成する</u>

#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

			HIWIN MIKE Axis Com instru	ROSYSTEM munication action.				^
H_AC H_AC InputE Outpu H_Ax Conne	COMN COMN Data utData is ection	t I a nFaulted	E2:1.Conne	hACOMM E2:I.Data E2:O.Data hAxis ctionFaulte	1 a a d ~	-(EN) -(PLCCon	trollable)—	
ErrC	₹.	Enter Nar	ne Filter	↓ SI	now:	All Tags		~
War	1	Vame	Casaatiaatiaat	Faultad		<u>=8</u>	Data Type	^
		<ul> <li>E2:1.</li> <li>E2:0</li> <li>HAcce</li> <li>hACOM</li> </ul>	Data leration MM		Na Da De	ame: E2:I.C Ita Type: B scription:	INT[32] onnection OOL	Faulted
E	∑ SH ∑ SH Show	now contro now Mainf	oller tags Program tage ers from othe	s er program:				
	<non< td=""><td>ie&gt;</td><th></th><td></td><td></td><td>~</td><td></td><td></td></non<>	ie>				~		

図 3.2.1.11

#### 3.2.2 動作指示

このセクションの機能ブロックは、軸のシャットダウン、軸の有効化、軸の移動、軸の原点復帰、軸のエ ラーのクリア、軸のトルク制御、軸のアームの登録、軸のアームの監視などの機能をサポートします。実 際の要件に基づいて機能ブロックを作成してください。ここでは、有効化と原点復帰をセットアップ例 として取り上げます。

注意:

AOI の詳細な命令説明と設定上の注意事項については、「Rockwell Studio 5000 を使用した E2 EtherNet/IP ドラ イバーの機能ブロック (AOI) アプリケーション マニュアル」を参照してください。

 セクション 3.2.1 の機能ブロックの設定手順を参照して、H\_MSO 命令と H\_MAH 命令の設定を 完了します。H\_Axis の変数は H\_ACOMM 命令の H\_Axis と同じである必要があります。そうで ない場合、コントローラーは軸に正常に指示を与えることができません。

Logix Designer - E2_AC [5069-L330ERM 34.11]*			- 8 X
File Edit View Search Logic Communicati	ons Tools Window Help		
🔁 🗳 🖶 🖶 🗴 🗇 🍈 🔈 🤇	> > # b & b & d @ @ 0 0		
RUN			
III Energy Storage	A la mar 2		
I I/O Offline I No Porces	P Notats at		
Controller Organizer 🔹 🔻 🗙	MainProgram - MainRoutine* ×      Program Parameters and Local Tags - MainProgram      Ontroller Tags - E2_AC(controller)	, <u> </u>	
o 11	R. C. E. L. C. E. 10 10 10 10 10 10 10 10 10 10 10 10 10		
▲ G Controller E2_AC ^		WarnCode	hWaro Code
Controller Tags		110110000	0+
Controller Fault Handler			
Power-Up Handler			
A LISKS			Axis Servo OFF
A L Main lask			instruction
Parameters and Local Taos	htmsF		H_MSF
MainRoutine			H_Axis hAxis -(EN)-
Unscheduled			ErrCode 0 (DN)-
🔺 🖳 Motion Groups			
Ungrouped Axes			
🔺 🖳 Alarm Manager			
J. Alarms			HIWN MKROSYSTEM
J. Alarm Definitions			instruction.
Add On Instructions	hemso		H_MSO
▶ ∰ H ACOMM			H Axis hAxis -(EN)-
H_MAFR			ErrCode 0(DN)
▶ ⊕ H_MAH			(P)
▶ ⊕ H_MAJ			000
▶ ⊕ H_MAM			
▶ ① H_MAR			HWIN MIKROSYSTEM
P 10 H_MAS	hEMAJ		H MAJ
P TU HUMASD			H_MAJ MAJ
MAT			H_Axis hAxis -(EN)
▶ @ H.MAW			0 - (DN)
▶ ⊕ H_MDR			Acceleration HAcceleration
▶ ⊕ H_MDW			Deceleration hDeceleration
H_MSF			Direction Direction
▶ ⊕ H_MSO			0.
P 11 H_ParmRead_Single			ErrCode 0.
G Data Times			
k is User-Defined			
Strings	Enour		
Add-On-Defined			
Predefined	O Errors 🛕 0 Warnings 0 0 of 8 Messages		Search
Module-Defined	Complete - 0 error(s), 0 warning(s)		
III Trends			
The Logical Model			
Description HIWIN MIKROSYSTEM Avis Co			
1 Controller Organizer	<		>
Search Results			
Ready	Commu	nication Software: FactoryTalk Linx	Rung 0 of 16 APP VER -

図 3.2.2.1

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#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

<u> 関数ブロックを作成する</u>

Logix Designer - E2_AC [5069-L330ERM 34.11]*		- 8 ×
File Edit View Search Logic Communicati	tions Tools Window Help	
ち 🖕 🖬 😝 🗶 🗇 🍈 🤊 💎	> > / b > / b & b & d @ @ C	
III RUN		
OK     Four Dackpane (10		
0 Offline . No Forces	» No Edits et. « у газотитех дос-от данны ок типенските проходие сопрокетивая иноческурса глезина зециенсе и разлика и прокети и проходи и прокетивании и проходи и прокетивании и поческурса и периок и прокетивании и прокетивании и прокетивании и прокетивании и прокетивании и прокетивании и прокетив По прокетивании и прокетив По прокетивании и прокети По прокетивании и прокет	
Controller Organizer • 4 ×	AdamProgram - Mainkoutine* x * Program Parameters and Local Tags - MainProgram * Controller Tags - EZ,AC(controller)	· · · ·
A S Controller F2 AC		
Controller Tags		Acceleration HAcceleration
Controller Fault Handler		Deceleration hDeceleration
Power-Up Handler		Direction hDirection
A MainTack		Det Det De
A h MainProgram		
Parameters and Local Tags		
MainRoutine		HIWIN MIKROSYSTEM Axis Homina
Unscheduled		instruction
Unarouped Axes	NEUAAH	H_MAH
🖌 🛁 Alarm Manager		H_Axis hAxis -(EN)-
Q. Alarms		Method hMethod
.Q. Alarm Definitions		SearchSwitchSpeed hSearchSwitchSpeed
A Sets		SearchZeroSpeed hSearchZeroSpeed
▶ @ H.ACOMM		Acceleration MAcceleration
▶  ⊕ H_MAFR		0 - (ER)-
Image: Barbarbarbarbarbarbarbarbarbarbarbarbarba		HomeOffset hHomeOffset
▶ @ H_MAJ		ErrCode
P UF H_MAM b (5) H MAR		HomeMsgWriteCtrl hHomeMsgWriteCtrl
In the mass		
▶ ⊕ H_MASD		HIWIN MIKROSYSTEM
Image: Market Marke		instruction
P 111 H_MAT	NELAAM	H_MAM
▶ ⊕ H MDR		H_Axis hAxis -(EN)
▶ ⊕ H_MDW		Position hPosition
Image: Image		Velocity hVelocity
► H_MSO		Acceleration HAcceleration
Im H ParmWrite Single		0 🗢 -(PC)
🖌 🖳 Data Types		Decementation Nuecementation
User-Defined		
E Strings	Errors	<b>★</b> ‡ ×
Predefined	D 0 From A 0 Wampon O 0 of 8 Messages	Search
Module-Defined		
iii Trends	contrate - a serve (a) ( a mereculation	^
h Logical Model		
Description HIWIN MIKROSYSTEM Avis Co	4	v
Controller Organizer	¢	>
Search Results Watch		
Ready	Communicati	ion Software: FactoryTalk Linx Rung 0 of 16 APP VER - 🧃

図 3.2.2.2

2. H\_MAH 命令の hHomeMsgWriteCtrl については次の設定を参照してください。

hHomeMsgWriteCtrl の右側にあるボックスをクリックします。「Message Configuration」ウィンドウがポップアップ表示されます。

属性をシングルに設定し、hMAH.MsgWriteData を選択し、Class、Instance、Attribute を 0 に設 定します。





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<u>関数ブロックを作成する</u>

3. Communication タグに切り替えて、「Browse…」をクリックし、対応する軸 (E2) を選択して、「OK」 をクリックします。



図 3.2.2.4

Message Configuration - hHomeMsgWriteCtrl	$\times$
Configuration* Communication* Tag	
Path: E2     Browse	
E2 O Broadcast:	
Communication Method	
O CIP ○ DH+ Channel: 'A' ○ Destination Link:     O ◆	
CIP With Source ID Source Link: 0 ♀ Destination Node: 0 ♀ (Octal)	
Connected Cache Connections	
⊖ Enable ⊖ Enable Waiting ⊖ Start ⊖ Done Done Length: 0	
○ Error Code: Extended Error Code: ☐ Timed Out ♥ Error Path: Error Text:	
OK Cancel Apply Help	

図 3.2.2.5

E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

3.2.3 パラメーターの読み取り/書き込み

このセクションの機能ブロックは、ドライバーの読み取り/書き込み機能をサポートします。 セットアップを完了するには、次の例を参照してください。

注意:

AOI の詳細な命令説明と設定上の注意事項については、「Rockwell Studio 5000 を使用した E2 EtherNet/IP ドラ イバーの機能ブロック (AOI) アプリケーション マニュアル」を参照してください。

 セクション 3.2.1 の機能ブロックの設定手順を参照して、H\_ParmRead\_Single 命令と H\_ParmWrite\_Single 命令の設定を完了します。H\_Axis の変数は H\_ACOMM 命令の H\_Axis と 同じである必要があります。そうでない場合、コントローラーは軸に正常に指示を与えることがで きません。

Logix Designer - E2_AC [5069-L330ERM 34.11]*		- 8 ×
File Edit View Search Logic Communicati	ons Tools Window Help	
15 🖆 🖴 🖶 🗗 🎧 🦻 🦿 🛃	> か 多 御 10 を あ 道 G 編 G G	
Path: Backplane\16*		
III Energy Storage	A superior of a superior add on Alarm Rt TreetCounter Institution Compare Compute/Valh Moyel onical Fiel/Vac FielShift Sequencer F	
I t/o Offline I No Porces	P <sub>2</sub> No 2015 et/	
Controller Organizer 🗸 🕈 🗙	HainProgram - MainRoutine" × 🗸 🖉 Program Parameters and Local Tags - MainProgram 🚿 Controller Tags - E2_AC(controller)	•
0 %	[4] 4. [4] ≥ 3.2. [2] [10] [20] [4. ]	
▲ Gontroller E2_AC		MIKROSYSTEM Axis
Ocontroller Tags	120 m David State	Parameter
Controller Fault Handler	nc+armeag_snge	H_ParmRead_Single H_ParmRead_Single_hParmRead_Single
Power-Op Handler		H_Axis hAxis -(EN)
A C MainTask		Parm_NO hParm_NO
A h MainProgram		Parm_Subindex hParm_SubINDEX
Parameters and Local Tags		In Data DEAL Ne Data DEAL
MainRoutine		0 (ER)-
Unscheduled		ReadValue hReadValue
A C Motion Groups		ReadValue_REAL hReadValue_Real
A C Alam Magazer		+0.0
Alarms		MSG_ErrCode 0+
Alarm Definitions		MSG_ExtErrCode 0+
🔺 🖳 Assets		
Add-On Instructions		Write a HIWIN
▶   H_ACOMM		MIKROSYSTEM Axis
P 19 H_MAFR	h/Perr/Wite Since	H DarmWille Single
P TH H MAI		H_ParmWrite_Single hParmWrite_Single
▶ @ H MAM		H_Axis hAxis -(EN) Parm NO hParm NO
▶ ⊕ H_MAR		0 • -(DN)
H_MAS		Parm_Subindex hParm_SubINDEX
▶ I H_MASD		Data_Length hData_Length
▶ ⊕ H_MASR		In Data REAL IN Data REAL
		0+
▶ (E) H MOR		WriteValue hWriteValue
▶ ⊕ H_MDW		WriteValue_REAL hWriteValue_REAL
▶ ⊕ H_MSF		NCO Write DMCO Write
▶ ⊕ H_MSO		MSG_ErrCode 0+
P ∰ H_ParmRead_Single		MSG_ExtErrCode 0+
P 11 H_ParmWrite_Single		~
P in User-Defined	4=	
Strings	Encore	- 0 - 1
Add-On-Defined		• + ×
Predefined	🔁 0 Errors 🛦 0 Warnings 🚺 0 of 8 Messages	Search 🔎
Module-Defined	Complete - 0 error(s), 0 warning(s)	^
Trends		
De Logical Model		
Description HIWIN MIKROSYSTEM Avis Co		~
Controller Organizer	<	>
Search Results 💭 Watch		
Pead		an/TalkLiny Runa 0 of 16 APR VCP -

🗵 3.2.3.1

H\_ParmRead\_Single 命令の hMSG\_Read については次の設定を参照してください。 2. hMSG\_Read の右側にあるボックスをクリックします。「Message Configuration」ウィンドウがポ ップアップ表示されます。

Get Attribute Single と hParmRead Single.MsgReadData を選択し、Class、Instance、Attribute を0に設定します。

		MIKROSYSTEM Axis
		H_ParmRead_Single
Message Configuration - hMSG_Read	×	H_ParmRead_Single hParmRead_Single H_Axis hAxis (EN)— Parm NO hParm NO
Configuration Communication Tag		Parm_Subindex hParm_SubiNDEX
Message Type: CIP Generic ~	•	Is_Data_REAL his_Data_REAL 0 - (ER)-
Service Get Attribute Single  V Source Element:	× (0.4.7)	ReadValue hReadValue 0 ReadValue_REAL hReadValue_Real
Service e (Hex) Class: 0 (Hex) Destination Single	e.MsgReadData V	MSG_Read
Instance: 0 Attribute: 0 (Hex)	Enter Name Filter V Show: All Tags	MSG_ExtErrCode 0
<u> </u> N	Name    g     Data Type       hParmRead_Single.DN     BOOL       hParmRead_Single.IP     BOOL	Write a HIWIN MIKROSYSTEM Axis
	hParmRead_Single.ER BOOL hParmRead_Single.MSG_ErrCode INT	H_ParmWrite_Single H_ParmWrite_Single hParmWrite_Single
	hParmRead_Single.MSG_ExtErrCode DINT hParmRead_Single.MsgReadData UDNT	H_Axis hAxis -(EN) Parm_NO hParm_NO 0(DN)
↓ ∑ sh	hParmivrite_single Name: hParmRead_Single.MsgRadData Data Type: DINT Dow controller tags Description: Read a HIWIN MIKR©SYSTEM Axis P	arameter DO NOT CHANGE (Used for MSG setting windov
⊖ Enable ⊖ Enable Waiting ⊖ Start ⊖ Done Dor ☑ Sh	now MainProgram tags	Is_Data_REAL his_Data_REAL 0 +
O Error Code: Extended Error Code:		WriteValue hWriteValue
Error Path: E2 Error Text:		WriteValue_REAL hWriteValue_REAL 0.0 +
OK Cancel Apply	y Help	MSG_Write         hMSG_Write            MSG_ErrCode         0 +           MSG_ExtErrCode         0 +

図 3.2.3.2

3. Communication タグに切り替えて、「Browse…」をクリックし、対応する軸 (E2) を選択して、「OK」 をクリックします。

Path	E2					Browse	
Broad	cast:	$\sim$					
Communi	cation Meth	od					
CIP	O DH+	Channel:	'A'	Destinati	on Link:	0	A I
CIP W	/ith e ID	Source Link:	0	Destinati	on Node:	0	(Octal)
Conn	ected		Cache C	Connections	•	Large Co	nnection
Conn	ected		Cache C	Connections	+	Large Co	nnection
Conn	ected		Cache C	Connections	•	Large Co	nnection
Conn	ected		Cache C	Connections	•	Large Co	nnection
Conn	ected		Cache C	Connections	•	Large Co	nnection
Conn	ected		Cache C	Connections	•	Large Co	nnection
Conn	ected		Cache C	Connections	•	Large Co	nnection
Conn	ected O Enable	Waiting	Cache C	Connections	Done	Large Co	nnection

図 3.2.3.3

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<u> 関数ブロックを作成する</u>

 H\_ParmWrite\_Single 命令の hMSG\_Write については次の設定を参照してください。 hMSG\_Write の右側にあるボックスをクリックします。「Message Configuration」ウィンドウがポ ップアップ表示されます。

Set Attribute Single と hParmWrite\_Single.MsgWriteData を選択し、Class、Instance、Attribute を 0 に設定します。

	MIKROSYSTEM Axis Parameter
	H_ParmRead_Single
	H. ParmRead_Single         hParmRead_Single
sssage Contiguration - hMSG_Write X	Is_Data_REAL his_Data_REAL 0 - (P) Is_Data_REAL 0 - (ER) ReadValue hReadValue
Message Type:     CIP Generic       Service     Source Element:       Type:     Source Length:       Source Length:     Type:	ReadValue_REAL     hReadValue_Real       MSG_Read     0.0 ←       MSG_ErCode     0 ←       MSG_EXtErrCode     0 ←
10     (Hex)     Class:     0     (Hex)     Destination       Instance:     0     Attribute:     0     (Hex)     Destination       Attribute:     0     (Hex)     Hexic     Hexic     Hexic       Image: Non-State     0     (Hex)     Hexic     Hexic       Image: Non-State     0     (Hex)     Hexic       Image: Non-State     0     (Hex)     Hexic       Image: Non-State     0     Hexic     Hexic	Write a HIWIN MIKROSYSTEM Axis Parameter H_ParmWrite_Single H_Axis Parm_NO hParm_NO
hParmWrite_Single.MsgWriteData         DNT       DNT         hPosition       DNT         Show controller tags       Name: hParmWrite_Single. MsgWriteData         Show MainProgram tags       Data Type: DINT         Show MainProgram tags       Description: Write a HIWIN MIKROSYSTEM	Parm_Subindex hParm_SubNDEX
D Enable O Enable Waiting O Start O Done Done Length: 0	0. WriteValue hWriteValue 0. WriteValue_REAL hWriteValue_REAL 0.0.6

図 3.2.3.4

5. Communication タグに切り替えて、「Browse…」をクリックし、対応する軸 (E2) を選択して、「OK」 をクリックします。

Message Configuration - hMSG_Write X
Configuration Communication Tag
Path: E2     Browse
E2 Broadcast:
Communication Method
O CIP ○ DH+ Channel: 'A' ✓ Destination Link: 0
CIP With Source Ink: 0   Destination Node: 0  (Octal)
Cache Connections + Large Connection
O Enable Q Enable Waiting Q Start Q Done Done Length: 0     O Error Code: ☐ Timed Out ♥ Error Path: E2 Error Text:
OK Cancel Apply Help

図 3.2.3.5

# 3.3 PLC へのソフトウェアセットアップのダウンロード

1. メインウィンドウの「Build Controller」アイコンをクリックして、コンパイル結果にエラーがないことを確認します。



🗵 3.3.1

2. Offline menu を右クリックし、[Download] を選択します。

Logix Designer - E2_AC [5069-L330El	RM 34.11]					- 6 ×
File Edit View Search Logic (	Communicatio	ns Tools	Window Help			
🔁 🖆 🖨 🗶 🗗 🖄 🔍	1					
RUN Salt Rate	diplocal 16*					
III Energy Storage	colores de Fro	h (11)	5 8 P	Computing of the second sec		
i 1/0 Offine	- No Porces	P., NO	Edis p.			
consolier organizer	Upload		am - Mainkoutile x Program Pa	ameters and Local Lags - Wainshogram Controller Lags - £2,4C(controller)		
A Controller F3 AC	Download	ł	The second second second second second			
Controller Tags	Program 2	Viode			HIWIN NIKROSYSTEM Axis Communication	^
Controller Fault Handler	Run Mode	n .			instruction.	
Power-Up Handler	Test Mode	0			ACOMM BACOMM	
A C MainTask	Class Faid	te.	-	inp to the second	torData E2:Data -	
A 5 MainProgram	Go To Fau	alts			Axis hAxis hAxis	(PLCControllable)
Parameters and Local Te MainPosting	Controller	Properties	-		0+	
Unscheduled	Controller	riopenies	r <sup>1</sup>	Err	Code hErrCode	<warn)< td=""></warn)<>
🔺 🥁 Motion Groups				Wa	arnCode hWarnCode	
Ungrouped Axes						
Q. Alarms			1		HWN MKR0	JSYSTEM
$f_{0}\lambda$ Alarm Definitions					Axis Serv	0 OFF
P Assets			hEMSF		H_MSF	1001
▲ U/O Configuration		(B)			H_MSF H H Axis	MSF
🔺 🚍 5069 Backplane					ErrCode	
1 - A1 Ethemet	_					RER)-
5069-L330ERM E2_AC						
E2 E2					HWWN MIKRO	ISYSTEM
A 2 AZ, Ethernet					Axis Sen instruct	to ON Bon.
5			hEMSO		H_MSO	100
		1			H_Axis H	Axis -(EN)
					ErrCode	CDNO-
						-(ER)
					HIVIN MIKROSYS	STEM
			hEMAJ		H_MAJ	
		3			LAM_H	

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#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

<u>関数ブロックを作成する</u>

### 3. 「ダウンロード」ウィンドウで「ダウンロード」をクリックします。

ergy Storage OK D OK Rem Run II No Forces	P., 1	Vo Edits 🔒	4 > Favorites Add-On Alarms Bit Tmer/Counter input/Output Compare Compute/Math NovelLogical File/Misc. File/Shift Sequencer F	
ller Organizer 🛛 👻 🖗 🗡	H MainP	rogram - MainRoutine 🗙 📿 Program P	arameters and Local Tags - MainProgram 🛛 🧳 Controller Tags - E2_AC(controller)	
Controller SLAC Controller Fault Handler Controller Fault Handler Poren-Up Handler Taks MainTexture MainTexture MainTexture Uncerheided Metton Groups Uncerheided Metton Groups Uncerheided Metton Groups Uncerheided Metton Groups Mann Definitions Auers Logical Model UO Configuration Stoff Bachginne Stoff Bach	2		Download         ×           Cercer         Optimiz           Control of Bine project 12, AC to the controler.         Control of Bine project 12, AC to the controler.           Carrier         Control of Bine project 12, AC to the controler.           Carrier         Control of Bine project 12, AC to the controler.           Carrier         Sold Josephane Us           Sold Josephane Us         Sold Josephane Us           South With The Control of Bine Bine Bine Project 10 (Controler II)         Sold Josephane Us           Marcial Hunderson III (Control of Bine Bine Bine Bine Bine Bine Bine Bine	HAND HORDON THE ACCOUNT AND
	Errors			
		0 Errors 0 Warnings	U of 1 Messages	Search

図 3.3.3

4. ロード手順が完了したら、「Logix Designer」ウィンドウで「Yes」をクリックして、コントローラー を実行モードに切り替えます。

Logix Designer - E2_AC [5069-L330ERM 34.11]		
File Edit View Search Logic Communicat	ions Tools Window Help	
ବ 🖕 🔛 🖶 🗶 ଶୋଗା ୭ ୧୯	> か が 伊 h h h m m G h m G m G m G m m m m m m m	
Program Mode Path: Backplane\16*		
Energy Storage OK	b No Eday 2 ( ) Favorites Add-On Alarms Bt Timer/Counter Input/Output Compare Computer/Vath NoveLogical Fiel/Nsc. Fie/Shift Sequencer F	
Controller Organizer • 9 ×	MainProgram - MainRealine - x Program Parameters and Local Tags - MeinProgram - @ Controller Tags - F2 AC(controller)	
4.12		
▲ Gontroller E2 AC		DAVE HARDOCYCTER
Controller Tags		Axis Communication
Controller Fault Handler		H ACONM
Gover-Op Handler     A G Tasks		H_ACOMM BACOMM
🔺 🖓 MainTask		OutputData E2:0.Data
MainProgram		M_Axis hAxis (PLCControllable)— ConnectionFaulted F21ConnectionFaulted
Parameters and Local lags IB MainRoutine		0+ -(Em)
Unscheduled		0+ -(Wam)-
🔺 🚍 Motion Groups		WarnCode hWarnCode
Ungrouped Axes		
Q. Alarms		HWW MKROSYSTEN
GL Alarm Definitions	Logix Designer X	Axis Servo OFF
P Assets b. Logical Model	hEMSF	H_MSF
✓ G I/O Configuration		H_MSF NMSF
A 📾 5069 Backplane	Done downloading. Change controller mode back to kernote kun?	ErrCode 0< Dv>
[0] 5069-L330ERM E2_AC		
5069-L330ERM E2_AC	Yes No	
E2 E2		HWWN MIKROSYSTEM
4 80 A2, Ethernet		Axis Servo ON instruction
Son-conclaim ca_Ac	hEMSO	H_MSO
		H_MSO hMSO [] H_Axis hAxis -(EN)
		ErrCade CNU-
		-KERO
		HIWN MIKROSYSTEM
	nEMAJ	H_MAJ
	3 • 1P	H_MAJ EAM
	S DEnors A DWarnings O Cof & Messages	Search
	Complete - 0 error(s), 0 warning(s)	
Russ Sine	4	
De Controller Organizer	\$	3
Search Results Watch		
Ready	Comme	nication Software: FactoryTalk Linx Runn 0 of 16 APP VER

図 3.3.4

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#### 5. デバイスが正常に接続されると、メインウィンドウのステータスに緑色のライトが表示されます。

	1001		
n Mode mooler OK = Y Path: Backplane\16*		3. 2. 5 ( → → → → ++ ++ () (0) (0)	
ergy Storage OK D OK Rem Run Romer No Porces	s 🖡 N	Edits 🔒 4 > Favorites Add-On Alarma Bit Timer/Counter Input/Output Compare Computer/I/ath NoveLogical File/Misc. File/Shift Sequencer F	
aller Organizer 🗸 🗘 🗸	× H MainPr	ogram - MainRoutine 🗙 🇳 Program Parameters and Local Tags - MainProgram 🧳 Controller Tags - E2,AC(controller)	
<u></u>	12 2 2	· No NN FR NP // · · · · · · · · · · · · · · · · · ·	
Controller E2_AC Controller Tags Controller Fault Handler Prover In Mandler			HWIN INKROSYSTEM Axis Communication Instruction.
Tasks	0		H_ACOMM hACOMM (m)
MainTask			OutputData E2:O.Data
A Barameters and Local Tans			ConnectionFaulted E2:1ConnectionFaulted
MainRoutine			ErrCode hErrCode
Unscheduled			0 - (Warn) WarnCode
Ungrouped Axes			0.
Alarm Manager			
Alarms     Alarm Definitions			Axis Servo OFF instruction
Logical Model		news-	H_MSF
VO Configuration		11	H_Axis hAxis (2N)-
TO 101 5069-L330FRM F2 AC			ErrCode 0• CDX)— KP)—
88 A1, Ethernet			
5069-L330ERM E2_AC			
욺 A2, Ethernet			HIWN MIKROSYSTEM Axis Servo ON
5069-L330ERM E2_AC		hENSO .	instruction.
	2		H_MSO MMSO
			ErrCode 0+ CDN)-
			-(P) -(ER)
			HM/IN MIKROSYSTEM
		NEMA L	Axis Jog Instruction
	3		H_MAJ []
	4=		
	Errors		
	0	0 Errors 4. 0 Warmings 0 of 8 Messages	Search
	Complete -	0 error(a), 0 warning(a)	
	-		

🗵 3.3.5

# 4. ファンクションブロックを操作する

4.1	A	.OIs を実行する	4-2
	4.1.1	軸通信	4-2
	4.1.2		4-4
	4.1.3	パラメーターの読み取り/書き込み	4-12

ファンクションブロックを操作する

# 4.1 AOIs を実行する

このセクションでは、軸通信、モーション命令、パラメーターの読み書きの実行手順を順に説明します。 操作例としては、H\_ACOMM、H\_MSO、H\_MSF、H\_MAH、H\_MAM、H\_MAT、H\_ParmRead\_Single、 H\_ParmWrite\_Single などがあります。他のファンクションブロックについても、同様の操作手順を参照 できます。

注記:

EtherNet/IP の機能ブロックとマニュアルは、HIWIN MIKROSYSTEM の公式ウェブサイトからダウンロードできます。

機能ブロック(AOI): Rockwell Studio 5000 を使用した EtherNet IP

#### 4.1.1 軸通信

 H\_ACOMM を右クリックし、「hACOMM」のモニターを選択して「Program Parameters and Local Tags」ウィンドウを開きます。

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MD46UJ01-2507

#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

<u>ファンクションブロックを操作する</u>

 Program Parameters and Local Tags」ウィンドウで、hACOMM.ConnectionFaulted が0で、 hACOMM.PLCControllable が1であることを確認します。これは、軸通信が正常に確立され、 PLC が制御可能であることを示します。

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注記:

H\_ACOMM 命令は有効な状態のままにしておく必要があります。

<u>ファンクションブロックを操作する E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000</u>

- 4.1.2 動作指示
- 有効 / 無効
- 「MainProgram」 ウィンドウで、H\_MSO または H\_MSF の接点スイッチを右クリックし、Toggle Bit 1. を選択してモーターを有効または無効にします。

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#### <u>E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000 ファンクションブロックを操作する</u>

2. ファンクションブロック H\_MSO または H\_MSF の DN ステータスを確認します。出力ステータス の場合、軸が正常に有効化または無効化されていることを示します。

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図 4.1.2.2

MD46UJ01-2507

<u>ファンクションブロックを操作する</u>

- 原点復帰
- 「Program Parameters and Local Tags」ウィンドウまたはファンクションブロックインターフェー スで、Method、SearchSwitchSpeed、SearchZeroSpeed、Acceleration、HomeOffset などの H\_MAH の変数設定を完了します。

注記:

「Program Parameters and Local Tags」ウィンドウを開くには、セクション 4.1.1 の操作方法を参照してください。



🗵 4.1.2.3

<u>ファンクションブロックを操作する</u>

2. 「MainProgram」ウィンドウで、H\_MAHの接点スイッチを右クリックし、「Toggle Bit」を選択して 原点復帰の実行を開始します。

注記:

原点復帰手順を実行する前に、まずモーターを有効にします。



図 4.1.2.4

3. ファンクションブロック H\_MAH の DN ステータスを確認します。出力ステータスの場合、軸が正常に原点位置に戻ったことを示します。

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<u>ファンクションブロックを操作する E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000</u>

- 移動(相対 / 絶対)
- 1. 「Program Parameters and Local Tags」ウィンドウまたはファンクションブロックインターフェースで、位置、速度、加速度、減速度、SetRelativeMove などの H\_MAM の変数設定を完了します。

注記:

- (1) 4.1.1 節の操作方法を参照して「Program Parameters and Local Tags」ウィンドウを開きます。
- (2) SetRelativeMove で移動方法(相対/絶対)を設定します。
- (3) 機構側の移動単位要求を満たすために、ドライバーの制御単位に機構側の最小移動量を設定し、制御単位 を基準に位置、速度、加速度、減速度を設定します。



図 4.1.2.6

<u>ファンクションブロックを操作する</u>

 「MainProgram」ウィンドウで、H\_MAMの接点スイッチを右クリックし、「Toggle Bit」を選択して 移動コマンドの実行を開始します。

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図 4.1.2.7

3. ファンクションブロック H\_MAM の DN ステータスを確認します。出力ステータスの場合、軸が移 動コマンドを正常に実行したことを示します。



図 4.1.2.8

MD46UJ01-2507

<u>ファンクションブロックを操作する</u>

E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

- トルク制御
- 1. 「Program Parameters and Local Tags」ウィンドウまたはファンクションブロックインターフェー スで、TargetTorque、TorqueOffset、TorqueSlope などの H\_MAT の変数設定を完了します。

注記:

- (1) 4.1.1 節の操作方法を参照して「Program Parameters and Local Tags」ウィンドウを開きます。
- (2) トルク指令のオフセットが不要な場合は TorqueOffset を 0 に設定します。
   トルクコマンドの計算式は以下のとおりです:
   トルクコマンド (0.1% 定格トルク) = TargetTorque + TorqueOffset
- (3) トルク指令の加速時間または減速時間を次の計算式で設定します。 TorqueSlope を 0 に設定しないでください。

加速または減速時間 (s) = TargetTorque / TorqueSlope

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図 4.1.2.9

E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

<u>ファンクションブロックを操作する</u>

2. 「MainProgram」ウィンドウで、H\_MATの接点スイッチを右クリックし、「Toggle Bit」を選択して トルク制御コマンドの実行を開始します。

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🗵 4.1.2.10

3. ファンクションブロック H\_MAT の DN ステータスを確認します。出力ステータスの場合、軸がト ルク制御コマンドを正常に実行したことを示します。

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図 4.1.2.11

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<u>ファンクションブロックを操作する E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000</u>

4.1.3 パラメーターの読み取り/書き込み

- パラメーターの読み取り
- 1. H\_ParaRead\_Single を右クリックし、「hParm\_NO」をモニターして選択し、「Program Parameters and Local Tags」ウィンドウを開きます。

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図 4.1.3.1

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#### E2 EtherNet/IP Drive Complete Setup with Rockwell Studio 5000

ファンクションブロックを操作する

2. 「Program Parameters and Local Tags」ウィンドウで、「Style」列で 16 進数を選択し、「Value」列 に値を入力します。ここでは通信オブジェクト 0x2100h を例に説明します。

注記:

Parm\_NO はファンクションブロックインターフェースからも設定できます。10 進数値に変換するか、「16#xxxx」と入力してください。ファンクションブロックには 10 進数で表示されます。

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図 4.1.3.2

「MainProgram」ウィンドウで、H\_ParaRead\_Singleの接点スイッチを右クリックし、「Toggle Bit」 3. を選択してパラメーターの読み取り実行を開始します。

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図 4.1.3.3

ファンクションブロック H\_ParaRead\_Single の DN ステータスを確認します。出力ステータスの場 4. 合、軸がパラメーター読み取りを正常に実行したことを示します。読み取られた値は ReadValue に 表示されます。

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- パラメーターの書き込み
- パラメーター読み取りの手順1と2を参照して、H\_ParaWrite\_Singleの変数設定(Parm\_NO、 ParmSubIndex、Data\_Length、Is\_Data\_REAL、WriteValue、WriteValue\_REALを含む)を完了し ます。ここでは、通信オブジェクト 0x2100h に書き込まれた値 1000 を例に挙げます。

注記:

- (1) 通信オブジェクトのデータ型に応じて Data\_Length を設定します。ドライバーの Pt パラメーターには 2 または 4 の 2 つのデータ型があります。詳細は「E シリーズドライバーユーザーズマニュアル」の第 15 章を参照してください。
- (2) 通信オブジェクトに応じて ParmSubIndex を設定します。オブジェクトに SubIndex がない場合は 0 を設 定してください。詳細は「E2 シリーズドライバー EtherNet/IP 通信コマンドマニュアル」の 3.7 節を参照 してください。
- (3) 通信オブジェクトのフォーマットに基づいて、書き込む変数を設定します。整数型の場合は WriteValue を 使用します。実数型の場合は WriteValue\_REAL を使用し、Is\_Data\_REAL を設定します。そうしないと、 パラメーターが正常に書き込まれない可能性があります。

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図 4.1.3.5

2. 「MainProgram」 ウィンドウで、H\_ParaWrite\_Single の接点スイッチを右クリックし、Toggle Bit を 選択してパラメーターの書き込み実行を開始します。

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図 4.1.3.6

ファンクションブロック H\_ParaWrite\_Single の DN ステータスを確認します。出力ステータスの場 3. 合、軸がパラメーター書き込みを正常に実行したことを示します。

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図 4.1.3.7

Application Note E2 EtherNet IP Drive Complete Setup with Rockwell Studio 5000 バージョン:V1.1 2025 年 7 月改訂

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