一、安装 CODESYS(工控机配置)

1、RTE 安装(RTE Install)

- 1、Codesys SoftMotion RTE 安装,以 Codesys RTE SP3.5.9.50 版本为例:
 - 1) 找到安装文件 Setup_CODESYSControlRTE64V3.5SP9Patch5.exe 文件;
 - 2) 右键,以管理员身份运行,进入安装程序;
 - 3) Win7 提示,选择"是";
 - 4) 进入安装准备状态

	CODESVS Control PTE 64 V/2 5 SD0 Patch 5 Jactal/Shield Wittand	
7 收藏夹	CODESTS CONTO INTE 04 VS.5 SPS Pater 5 - Instalishield Wizard	大小
🝌 下载	CODESYS Control RTE 64 V3.5 SP9 Patch 5 requires the following items to be installed on	52 KB
三 桌面	your computer. Click Install to begin installing these requirements.	719 KB
💹 最近访问的位		685 KB
	Status Requirement	69,543 KB
 □ 库 视频 图片 〕 文档 ♪ 音乐 ↓ 	Pending Microsoft Visual C++ 2010 SP1 Redistributable Package (x64) Pending Microsoft Visual C++ 2005 SP1 Redistributable MFC Security Update KB2538242(x64) Extracting: CodeMeterRuntime64.msi	
🏭 本地磁盘 (C:)		
👝 软件 (D:)		
9 网络	Install Cancel	
100		

选择 Next,进入下一步,

icense Agreement Please read the following license agreement carefully.						
License	Agreement		^			
for the CODES	usage of a CODESYS Softw SYS Software Package	vare or				
	General Terms of License (End Us for the supplied Software. Please r Agreement carefully before using th Downloading or installation of the S recognition by the customer of the o	er License Agreement) ead this Software User ne supplied Software. Software constitutes conditions of this	~			
● I accept t	ne terms of the license agreement	Open Source Licens	es			
○ I do not a	ccept the terms of the license agreement	Print				



5) Set boot options

Set boot options?	
Should the setup change the boot options as shown before?	
• Yes, setup changes the boot options	
○ No, boot options are set manually	
InstallShield	
< Back Next > C	ancel

选择"Yes, setup changes the boot options",进入下一步; 6) RTE 类型选择



本例有做运动控制,选择"Codesys SoftMotion RTE",进入下一步;

7)选择安装项目

atures you do not want to install.
Description
Next > Cancel

以默认选项,选 Next 进入下一步,后续默认选项,直到进入一下页面:





8) 重要安装信息

DESYS Control RTE 64 V3.5 SP9 Patch 5 - InstallShield Wizard	
ery important information	4
Compatibility Information	^
M4-Export CDS-47088 Constant literals and enum initial values are exported now via constant macros (#define RTS_IEC_type_C(constant)) in the m4 file to be portable in the runtime.	
These new constant qualifiers are available only in the runtime with v3.5.9.0 and later. So you will get compile errors if you use these exported m4 files in previous versions of the runtime system.	~
I have read the information	
O I have not read the information yet Print Print	
< Back Next > Cand	tel

提示版本包含的重要信息,主要包括新增功能和版本更新说明等,选择"I have read the information",继续选择 Next 下一步进行安装;

CODESYS Control RTE 64 V3.5	SP9 Patch 5 - InstallShield Wizard	i
Information		
Please read the following text.		
The text below describes the con	figuration and saved backup files.	
The RTE uses this configuration C:\Program Files\3S CODESYS\	file: CODESYS Control RTE3\CoDeSysControl.cfg	^
<		>
stallShield		
	< Back Next >	Cancel
择 Next 继续;		

9) 安装完成



选择"Finish",自动重启计算机,完成安装。

2、网卡驱动安装 (NetWork Install)

1) 选择 LAN1 作为 EtherCAT 总线通讯接口;

2)进入控制面板--网络和 Internet--网络连接,找到 LAN1 对应的网卡属性,更新 驱动程序;

	常规	链接速度	高级	申源管理	分组
Intel(R) 82574L Gigabit Netwo	VLAN	MISCHICK	驱动程序	详细	暗息
	In 驱动 驱动 驱动 驱动 驱动程序 更新驱动	tel (R) 82574L)程序提供商:)程序日期:)程序版本: ·签名程序: 详细信息(I)) (程序(P)	Gigabit Netw Intel 2013/5/16 12.7.27.0 Microsoft W Compatibili 查看有关驱过 为这个设备到 如果该设备到	vork Connection indows Hardwar ty Publisher 动程序文件的详细 更新驱动程序软件 在裏新驱动程序四	。 暗息。 ‡。 扶败,请
	禁	用(10)	禁用所法设行	×≈1396401±7°° ≜∘	
				⇒ (吉御)	
	卸	载(1)	。	すい司教」。	



3) 选择网卡对应的程序,本例选择下图所示网卡:

查找范围(I):	🍌 CmpEt1000N	IPD	- 0	1 🖻 🛄	•	
C:	名称	^		修改日期		
》	net541ex			2016/5/2	14:33	
桌面						
库						
计算机						
6						
	•]		Þ
网络	文件名 (M):	net541ex		• [打开(0)	
	文件类型(T):	安装信息 (*.inf)		-	取消	_

关于网卡选择驱动类型可参考 32 位操作系统安装 Codesys 说明,或登录 Codesys 官网查询。

4)选择后,确定等待安装完成,关闭退出即可。

3、RTE 添加组件

1) 在右下角 RTE 运行图标,右键选择: PLC Configuration;如果右下角没有 图标显示,可以找到 RTE 安装路径下的 CodesysRTESysTray 应用程序,右键 以管理员身份运行即可。

→ • ↑ <mark> </mark>	CODESYS > CODESYS Control RTE3	~ 2) 搜索"CODE	SYS Control RTE 🔎	ager Application Log	iger
44. MRA4.07	□ 名称	修改日期	类型	大小 ^		
1天迷坊四	CmpEt100MPD	2018/8/16 15:26	文件夹		<i>A</i>	
	CmpEt1000MPD	2018/8/16 15:26	文件夹			
下载	CmpRTL81x9Mpd	2018/8/16 15:26	文件夹			
🛾 文档 🛛 🖈	CmpRTL8169Mpd	2018/8/16 15:26	文件夹		Component is installed as Windows-driv	er
2 图片 🖌	Documentation	2018/8/16 15:26	文件夹		Component is installed as Windows-driv	
- 本地磁盘 (D:)	HilscherCIFX	2018/8/16 15:26	文件夹		a strip at the first standard die versited werden.	
📕 视频	InstallationInfo	2018/8/16 15:27	文件夹		Component is installed as Windows-driv	er 🔰
▶ 音乐	Others	2018/8/16 15:26	文件夹		Component is installed as Windows-driv	er
	PlcLogic	2018/8/16 11:17	文件夹			
OneDrive	SourceLicenses	2018/8/16 15:26	文件夹		Component is installed as Windows-driv	er 📔
一些电脑	SysDrv3S	2018/8/16 15:27	文件夹		Component is installed as Windows-driv	8
10-004	- Temp	2018/8/16 15:27	文件夹			
网络	W2K_XP_Drivers	2018/8/16 15:26	文件夹		Component is installed as Windows-driv	er 🛛
	3S.dat	2018/8/16 14:43	DAT 文件	1 KB		
	CoDeSysControl.cfg	2018/8/16 15:27	CFG 文件	2 KB	Component is installed as Windows-driv	er
	CODESYSControlRTEService	2016/11/14 13:55	应用程序	2,426 KB		
	CODESYSControlRTESysTray	2016/11/14 13:55	应用程序	1,054 KB		
	CoDeSysControlStaticTV	2016/11/14 13:55	应用程序	2,440 KB		
] IPCBitmapPool.tmb	2018/8/16 11:20	TMB 文件	20 KB		
	IPCBitmapPool0.tmb	2018/8/16 11:24	TMB 文件	20 KB		Start PLC
] IPCBitmapPool1.tmb	2018/8/16 11:30	TMB 文件	20 KB 🗸		Start FLC
个项目 选中 1 个项目	1.02 MB			822 📼		Stop PLC
						Exit PLC Control
					20 C	PLC Configuratio
n - 式						Remote PLC

2) 进入 PLC configuration

Sched	luler	File		Tar	get
Diagnostic	Startup	Component Ma	nager	Application	Logge
Plc Configuratio	on Path: es\3S CODESYS	CODESYS Control RT	E3\		
CmpCodeMeter	onents:	• 1	Compo	nent is installed as Wind	dows-driver
CmpEt1000Drv		- I	Z Compo	nent is installed as Wind	dows-driver
[- I	Compo	nent is installed as Wind	dows-driver
		•	Compo	nent is installed as Wind	dows-driver
		• I	Compo	nent is installed as Wind	dows-driver
[<u> </u>	Compo	nent is installed as Wine	dows-driver
		•	Compo	nent is installed as Wind	dows-driver
-		•	Compo	nent is installed as Wind	dows-driver

选择 CMPET1000Drv 驱动组件,点击确定;如需自动启动 RTE,在 Startup 中勾选下图 选项:

tem Configurat	ion			?
Sched	luler	File	Tar	get
Diagnostic	Startup	Component Manager	Component Manager Application	
Start the R	re basic systems C with the basic	ervice when booting. system service		
It Startine i t	C WITTING DOSIC	system service		
主后,请重 启	RTE 设备。			

3、RTE 卸载 (RTE UnInstall)

1、在计算机的控制面板中,找到程序--程序和功能,进入后,选择已安装的 CodesysRTE 版本;

□ 程序和功能					- 0	×
← → ~ ↑ 🚺 > 控制面板	→ 、 ↑ □ > 控制面板 > 程序 > 程序和功能					
控制面板主页 查看已安装的更新 ● 定用或关闭 Windows Th部	卸载或更改程序 若要印载程序,请从列表中将其选中,然后单击"印载"、"更改	"或"修复"。				
A HARACKIN WINDOWS SUBE	组织 ▼ 卸載					?
	名称 ^	发布者	安装时间	大小	版本	
	CodeMeter Runtime Kit v6.30d	WIBU-SYSTEMS AG	2018/8/16	109 MB	6.30.2280.504	
	CODESYS Cont	3S-Smart Software Solutions Gm	2018/8/16	21.5 MB	3.5.950.0	
	eGalaxTouch 卸载(U)	eGalaxTouch	2017/5/8	14.4 MB	5.13.0.12628	
	Microsoft Visual C++ 2005 Redistributable (x64)	Microsoft Corporation	2018/8/16	3.91 MB	8.0.61000	
	📧 Microsoft Visual C++ 2010 x64 Redistributable - 10	Microsoft Corporation	2018/8/16	1.11 MB	10.0.40219	
	😹 Realtek High Definition Audio Driver	Realtek Semiconductor Corp.	2017/5/8	32.2 MB	6.0.1.6662	
	346 英特尔(R)显卡驱动程序	Intel Corporation	2018/8/16	3.15 MB	10.18.10.3496	
	188 英特尔® 可信执行引擎	Intel Corporation	2018/8/16	3.11 MB	1.0.0.1064	

2、右键单击选择卸载,进入卸载界面;

CODESYS Control RTE 64 V3.5 SP9 Patch 5 - InstallShield Wizard

2	Preparing to Install
	CODESYS Control RTE 64 V3.5 SP9 Patch 5 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Preparing to Install
	Cancel

CODESYS Control RTE 64 V3.5 SP9 Patch 5 - InstallShield Wizard

Do you want to completely remove the selected application and all of its features?



选择"是(Y)",进入下一步:

CODESYS Control RTE 64 V3.5 SP9 P. Reset Boot Options?	atch 5 - InstallShield Wi:	zard X
The boot options had been changed wit Would you like to reset them to the pre-	h the installation. vious settings?	
• Yes, setup changes the boot options	s	
○ No, boot options are set manually		
instaliShield		
	< Back Ne	ext > Cancel

选择: Next,后续选择默认选项,直到下图:

دodestis control kie d4	Uninstall Complete InstallShield Wizard has finished uninstalling CODESYS Control
	RIE 64 V3.5 SP9 Patch 5. () Yes, I want to restart my computer now.) () No, I will restart my computer later. Remove any disks from their drives, and then dick Finish to complete setup.
	< Back Finish Cancel

选择"Finish",自动重启计算机,完成卸载。

注意:如果已经安装了授权,请勿卸载: CodeMeter Runtime Kit。

二、程序使用前配置

1、编程电脑连接 RTE

1) 打开控制面板-【网络与 Internet】-【网络和共享中心】-【更改适配器选项】更改本机 IPV4 地址为 192.168.1.11(此地址为任意配置地址,编程电脑与工控机 RTE 在同一段网 关下即可)

▶ 网络连接	-		×
← → × ↑ 👻 > 控制面板 > 网络和 Internet > 网络连接 ✓ ひ	搜索"网络连接"		P
组织▼		•	?
WLAN 新設備 光振線 予法規 Bluetooth Device (Personal Ar With Partial With Partial Market Bluetooth Device (Personal Ar With Partial Market Bluetooth Device (Personal Market Bluetooth Device (Personal Market Bluetooth Device (Personal			
3个项目			

在【以太网】处,点击鼠标右键,选择【属性】-【Internet 协议版本 Tcp/Ipv4】。即可修改 2) 工控 RTE 修改原理如上,但不可以与 CODESYS 驱动为同一个网口,为了避免影响使用,

需选择 LAN2 网口。即工控机至少需要两个网口。一般出厂配置为 192.168.1.100。

关闭工控机防火墙。打开【控制面板】-【系统与安全】-【Windows Defender 防火墙】
 【启用/关闭 Windows Defender 防火墙】.

健康 自定义设置		-	×
← → ◇ ↑ 📽 > 控制面板 > 系统和安全 > Windows Defender 防火増 > 自定义设置	~ Ū	搜索控制面板	P
白定以各类网络的设置			
你可以修改使用的每种类型的网络的防火增设置。			
专用网络设置			
🥏 💿 启用 Windows Defender 防火墙			
□ 阻止所有传入连接,包括位于允许应用列表中的应用			
→ Windows Defender 防火增阻止新应用时通知我			
😵 🔿 关闭 Windows Defender 防火墙(不推荐)			
公用网络设置			
② ⑥ 启用 Windows Defender 防火墙			
□ 阻止所有传入连接,包括位于允许应用列表中的应用			
✓ Windows Detender 約次(補助1)通知規定			
确定 取消			

4) 打开命令提示符,使用 Ping 命令, ping 192.168.1.100。连接成功即配置成功



三、虚轴调试

1. 开始菜单:搜索 Codesys softmotion win v3 单击开启



2. 打开 Codesys 平台,打开程序,右击 Device,点击【更新设备/Update Device】确认连接版本

3. 如果没有你你需要的版本,请点击【显示全部供应商/Display all versions】

4. 点击【Update Device】。替换即可,注:如果 Device 括号为显示 Codesys softmotion win v3 无需执行 **2.3** 步。直接执行第五步

5.双击【Device (Codesys softmoiotn win v3)】--【扫描网络】--连接设备即可。



tion:	ine. Device				
Append device Plug device Plug pend device Plug device evice: Image: Softwate Softwate Software	tion:				
Vector Vendors Vector Version Description MixedInacous PLCs PLCs CODESYS SoftMotion RTE V3 SS - Smart Software Solutons GmbH 3.5.9.50 A CODESYS SoftMotion RTE V3 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion RTE V3 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion RTE V3 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion NTE V3 64 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion Nun V3 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion Nun V3 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion Nun V3 SS - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion Nun V3 SS - Smart Software Solutons GmbH 3.5.9.0 CODESYS SoftMotion Nun V3 SS - Smart Software Solutons GmbH 3.5.9.0 CODESYS SoftMotion Soft-PLC for Windows with non reatime capabilities Coup by category SS - Smart Software Solutons GmbH 3.5.9.0 CODESYS SoftMotion Soft-PLC for Windows 64 with non reatime capabilities Vendor: 3.5.930 CODESYS SoftMotion Nn V3 SS - Smart Software Solutons GmbH SS.9.	Append device O Insert device O Plug de	vice Update device			
Index Index <td< th=""><th>Contraction Contraction</th><th>Carolina Carolina Car</th><th></th><th></th><th></th></td<>	Contraction Contraction	Carolina Car			
All vendors> Vendor Version Description Image: SoltMotion PLCs SoltMotion RTE V3 35 - Smart Software Solutons GmbH 3.5.9.50 A CODESYS 3.x SoftMotion Soft PLC with hard reatime for Win32 CODESYS SoftMotion RTE V3 35 - Smart Software Solutons GmbH 3.5.9.50 A CODESYS 3.x SoftMotion Soft PLC with hard reatime for Win32 CODESYS SoftMotion RTE V3 35 - Smart Software Solutons GmbH 3.5.9.50 A CODESYS 3.x SoftMotion Soft PLC for Win44 CODESYS SoftMotion Win V3 35 - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion Soft-PLC for Windows with non reatime capabilities CODESYS SoftMotion Win V3 35 - Smart Software Solutons GmbH 3.5.9.50 CODESYS SoftMotion Soft-PLC for Windows Kith non reatime capabilities CODESYS SoftMotion Win V3 35 - Smart Software Solutons GmbH 3.5.12.0 CODESYS SoftMotion Soft-PLC for Windows Kith non reatime capabilities CODESYS SoftMotion Win V3 x64 35 - Smart Software Solutons GmbH 3.5.12.0 CODESYS SoftMotion Soft-PLC for Windows Kith non reatime capabilities Corpus by category Cobesys SoftMotion Vin V3 35 - Smart Software Solutons GmbH 3.5.12.0 CODESYS SoftMotion Not Soft HC Cor Windows Kith non reatime capabilities Corpus by category Cobesys SoftMotion Vin V3 Software Solutons GmbH 3.5.12.0 </th <th>evice:</th> <th></th> <th></th> <th></th> <th></th>	evice:				
tame Vendor Version Description If Micellaneous PLCs Status Statu	endor: <all vendors=""></all>				3
PLos PLos CODESYS SoftMotion RTE V3 CODESYS SoftMotion RTE V3 SoftMotion WIN V3 SoftMotion WIN V3 SoftMotion Soft-PLC for Windows With non reatime capabilities CODESYS SoftMotion Soft-PLC for Windows 64 with non reatime capabilities CoDESYS SoftMotion WIN V3 SoftMotion Soft-PLC for Windows 64 with non reatime capabilities CoDESYS SoftMotion WIN V3 SoftMotion Soft-PLC for Windows 64 with non reatime capabilities CoDESYS SoftMotion WIN V3 SoftMotion Soft-PLC for Windows With non reatime capabilities CoDESYS SoftMotion WIN V3 Windows With non reatime capabilities CoDESYS SoftMotion WIN V3 Windows With non reatime capabilities CoDESYS SoftMotion Soft-PLC for Windows with non reatime capabilities Order Number: 30:9021 Description: CODESYS SoftMotion Soft-PLC for Windows with non reatime capabilit	lame	Vendor	Version	Description	
If UGs If SoftMotion PLCs If CoDESYS SoftMotion RTE V3 35 - Smart Software Solutions GmbH 3.5.9.50 A CODESYS 3.x SoftMotion SOft PLC with hard reatime for Win32 If CoDESYS SoftMotion RTE V3 35 - Smart Software Solutions GmbH 3.5.12.0 A CODESYS 3.x SoftMotion SOft PLC with hard reatime for Win32 If CoDESYS SoftMotion RTE V3 35 - Smart Software Solutions GmbH 3.5.12.0 A CODESYS 3.x Soft PLC for Win64 If CoDESYS SoftMotion Win V3 35 - Smart Software Solutions GmbH 3.5.9.50 A CODESYS SoftMotion Soft-PLC for Windows with non reatime capabilities If CoDESYS SoftMotion Win V3 35 - Smart Software Solutions GmbH 3.5.9.50 CODESYS SoftMotion Soft-PLC for Windows with non reatime capabilities If CoDESYS SoftMotion Win V3 x64 35 - Smart Software Solutions GmbH 3.5.12.0 CODESYS SoftMotion Soft-PLC for Windows 64 with non reatime capabilities If coup by category CoDESYS SoftMotion Win V3 x64 35 - Smart Software Solutions GmbH 3.5.12.0 CODESYS SoftMotion Soft-PLC for Windows 64 with non reatime capabilities If coup by category Ipsi and coupsing outdated versons Ipsi and coupsing outdated versons Ipsi and coupsing outdated versons If coupsing softMotion PLCs Servisin: is 5.950 Ipsi and coupsing outdated versons Ipsi and coupsing outdated versons	Miscellaneous				
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6.设备连接成功,显示绿色。双击菜单栏的【在线(Online)】-【下载(Login)】或者点击相应快捷图标即可下载,如果成功,登出图标后会出现蓝色三角按钮,即启动按钮,单击即可启动

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7. 冷复位, 虚轴调试的时间为 30 分钟-60 分钟, 时间不确定。当时间到期后, 总线断开, 程序轴会显示红色三角报错。点击【在线(Online)】-【冷复位 Reset cold】。再执行第 6 步操作即可。

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四、视觉使用说明

4.1 本软件支持人通 RT 运动控制板卡

4.2 在板卡选择在安装目录下

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进行板卡选择修改。

- 4.3 软件可以实现轴点动。
- 4.4 欢迎使用自动编译器,

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在编译框编写运动控制逻辑,单击运动。

4.5 视觉系统,

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A 打开一张图片, 然后框选特征区域, 右键单击, 框选图形 变成蓝色, 最后单击训练图形。

就完成对模板学习。

客户现场案例:

8 轴贴合机: 通过界面点动按钮,移动相机到去料位置取物料,同时相机拍照拍照找到具体位置,调整角度取塑料膜片。



通过运动轨迹编辑器实现多轴轨迹动作和逻辑控制。

单轴移动								代码编译框 运动轨迹编辑器 调试界面 視觉 参约		
Х+	¥+	Z+	T +	₹2+	₩3+	₹4+	₩5+	G90		
X -	Y -	Z-	T-	₹2-	₩3-	₹4-	₩5-	G00 x26.326 y2.328; 重07 //开 激 光		
 申請开关选择 ● 运行6代码 ○ 出光 运动控制 参裁设置 		加工模式 ④ 加工 〇 空走 修改密码		轴坐标系选择 1 2				■60 G01 x29.112 y4.361; G01 x29.112 y10.715; ■64 ■08 //关激光 G00 x32.170 y10.715 z10.956; G00 x40.637 y14.889; G00 x0.000 y0.000 z0.000; ■02 //焊接完成		
手动	控制	示教编程					G代码编译器			
图册	₿0	重制	ę.							

脚本框可以完成运动和视觉轨迹数据的修正和传送支持 c# 语法。

