

Advantech AE Technical Share Document

Date	2015 / 07 / 16	SR#	1-2120491526
Category	■ FAQ □ SOP	Related OS	WS7P X86
Abstract	How to connect APAX-5	071 by using CO	DESYS
Keyword	CODESYS, Modbus slave	e address	
Related		0	
Product	AFAA-3300, ADAM-330	0	

[Problem]

How to connect APAX-5071 by using CODESYS?



[Solution]

1. You need to download the GSDML file from the Advantech Website <u>http://support.advantech.com/support/DownloadSRDetail_New.aspx?SR_ID=1-LBFAXV&</u> <u>Doc_Source=Download</u>

APAX-5071 GSDML Solution :		
Download File	Released Date	Download Site
APAX-5071 BMP.rar	2015-06-09	Primary Secondary
APAX-5071 GSDML.rar	2015-06-09	Primary Secondary

2. Run the CODESYS and click menu(Tools->Devices Repository) to install the APAX-5071 GSDML file and BMP file



Enabling an Intelligent Planet

😤 Device Re	pository		×
Location:	System Repository (C:\ProgramData\COD	▼ ESYS\Devices)	Edit Locations
Installed de	vice descriptions: Ve iscellaneous eldbusses LCs oftMotion drives	ndor Version	Install Uninstall Install DTM
			Close

Name		Vendor	Version	
🗉 🛲 DP Master				
🗄 - 🛲 DP Slave				
🖨 🛲 Profinet IO				
🗄 🖽 🖳 Ethernet A	dapter			
🗉 🛲 Profinet IO	Device			
🕀 🛲 Profinet IO	Master			
🖃 🛲 Profinet IO	Slave			
ADAM-	6100PN Compact I/O	Advantech Co., Ltd.	SW=V 1 2 1, HW=1	
MPAX-5	071 Modular I/O	Advantech	SW=V01.02.03, HW=A1.0	
🕤 Codes	ys Plc PN Device	35 - Smart Software Solutions GmbH	SW=V1.0.0, HW=1	
🗉 S sercos				



Enabling an Intelligent Planet

 😤 Details	×
General:	Name: APAX-5071 Modular I/O Vendor: Advantech Groups: Profinet IO Slave Type: 81 ID: 0x01C6_0x5071_IDD_1 Version: SW=V01.02.03, HW=A1.0 Model Number: APAX-5071 Description: APAX-5071 PROFINET Coupler Module
Image: -	
	Close

3. Then you can refer to the user manual to add Ethernet and PN-Contoller

Devices 👻 🕂 🗙	Device i Ethernet X
Untitled5	Ethernet Configuration Status () Information
E Device [connected] (Advantech Control x86	
Plc Logic	Interface: Local Area Connection 2
Plc Logic Application PLC_PRG (PRG) PLC_PRG (PRG) Task Configuration MainTask Plc_PRG PLC_PRG Profinet_CommunicationTask Profinet_IOTask System_Diagnosis (System Diagnosis) Ethernet (Ethernet)	Interface: Local Area Connection 2 (Device uses operating system settings) IP address 10 . 0 . 0 . 58 Subnet mask 255 . 255 . 255 . 0 Default Gateway 0 . 0 . 0 . 0 Network Adapters Network Adapters Interfaces: Interfaces
	IP address 10 . 0 . 0 . 58 Subnet mask 255 . 255 . 0 Default Gateway 0 . 0 . 0 . 0 MAC-Address: 74.FE 48.0C/AEFO Ok Cancel



Enabling an Intelligent Planet	
🖻 🧔 Application	
🖓 📶 Library Manager	Default Slave IP Parameter
PLC_PRG (PRG)	First IP address 10 . 0 . 0 . 2
🖹 🌃 Task Configuration	Last IP address 10 . 0 . 0 . 254
🗏 😂 MainTask	Subnet mask 255 255 255 0
HIC_PRG	
Profinet_Commu	inicationTad Default Gateway 0.0.0.0
······································	er.CommCy
Profinet_IOTask	- Nisepsein)
Ethernet 1 (Ethernet)	
PN Controller (PN-Contr	oller)
<u>ж</u> а	ıt
B Co	ру
Pa	iste
× De	lete
Re	:factoring
E Pr	operties
Kita Ac	d Object
🗀 Ac	Id Folder
Ad	d Device
In	sert Device
Sc	an For Devices
Dis	sable Device
Up	date Device
Di Ed	lit Object
Ed	lit Object With
Ed	it IO mapping
Im	port mappings from CSV
Ex	port mappings to CSV
Sir	nulation
De	vice Configuration

4. Scan the APAX-5071 and copy to the project

Devicename	Devicetype	Station Na	Ident-Nr.	MAC address	IP address	Subnet mask
∃ a5071	APAX-5071 Modular I/O	a5071	16#50710000	00:D0:C9:F0:AE:0E	10.0.0.2	255.255.255.0
a5071_0	APAX-5060		16#50600000			
¢uM SetIP <	·> reset Blink LED	Nominate	show only unname	ed stations	sh	ow differences to project



Enabling an Intelligent Planet

- 5. Sucessful Profinet connection to the APAX-5071
 - 🗉 🎒 Untitled5 • 🖹 📀 🚺 Device [connected] (Advantech Control x86 RTE V3) 🗏 🗐 Plc Logic 🖹 🔘 Application [run] 👘 Library Manager PLC_PRG (PRG) 🖹 🌃 Task Configuration 🖻 🆃 MainTask PLC_PRG 🖹 🍪 Profinet_CommunicationTask PN_Controller.CommCycle Profinet_IOTask 😏 🔁 System_Diagnosis (System Diagnosis) Ethernet (Ethernet) 😑 😏 🛐 PN_Controller (PN-Controller) 🖶 😏 🗐 a5071 (APAX-5071 Modular I/O) 😔 🕄 🗍 a5071_0 (APAX-5060) <Empty> (<Empty>) <Empty> (<Empty>) K <Empty> (<Empty>) ~K <Empty> (<Empty>) <Empty> (<Empty>) Compty> (<Empty>) <Empty> (<Empty>) ۲, <code color="block"><code color="block"></code color="col Ľ, <Empty> (<Empty>) к, <Empty> (<Empty>) Ľ <Empty> (<Empty>)