



MC-Link with ProfiNet Interface User Manual

This document applies to the following controllers: B8050-ML-PN



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1 System overview

The LinMot ProfiNet-ML controllers have the following functionalities:

Device Property	Value / Remark
Minimal ProfiNetcycle time	2 ms

ProfiNet is the open real-time Ethernet network originally developed by Siemens. The LinMot act as Slave in this network and is implemented with the standard ASIC TPS 1 from Renesas.

For further information on the ProfiNet fieldbus please visit: http://www.ProfiNet.org/

1.1 References

All user manuals are distributed with the LinMot-Talk configuration software the newest version can be downloaded from the LinMot homepage under the download section.

Ref	Title	Source
1	User Manual Motion Control SW	www.linmot.com
2	LinMot Drive Configuration over Fieldbus Interfaces SG4	www.linmot.com
3	Usermanual_MC_Link_with_ProfiNet_SG5.pdf	www.linmot.com



2 Connecting to the ProfiNet Network

2.1 Pin Assignment of the Connectors X17-X18

The Ethernet connectors are standard RJ45 female connectors with a pin assignment as defined by EIA/TIA T568B:

X17 – X18	RealTim	e Ethernet Connector	
	Pin	Wire color code	Assignment 100BASE-TX
	1	WHT/ORG	Rx+
	2	ORG	Rx-
	3	WHT/GRN	Tx+
	4	BLU	-
	5	WHT/BLU	-
	6	GRN	Tx-
	7	WHT/BRN	-
	8	BRN	-
	case	-	-
RJ-45	Use stan wiring. Th Cable".	dard patch cables (twist his type of cable is usua	ed pair, S/UTP, AWG26) for lly referred to as a "Cat5e-

X17 is the ProfiNet input and X18 the ProfiNet Output Connector.



3 Setup in the PLC

In the following steps the integration of a LinMot ProfiNet controller in the PLC is described. In the example a Siemens master PLC is used.

3.1 Adding the GSDML to the Hardware Catalogue

The LinMot controller is described with *.gsdml device description file distributed with the LinMot-Talk software.

Copy this file to PLC so it can access it.

Example Source path of ProfiNet Device description file:

C:\Program Files (x86)\LinMot\LinMot-Talk 5.1 Build 20121010\Firmware\Interfaces\ProfiNet_ML\GSDML\GSDML-V2.2-NTI-ML-PN_IO-V1.0-20130206.xml

3.2 Adding the B8050-ML-PN V1.x ProfiNet slave device

With drag and trop the B8050-ML-PN device could be added from the HW catalogue to the desired Profinet network:

Projektnavigation 🔲 ·	PN_Tst	:_88050_18 → Geräte & Netz	9					_ # # X	Hardware-Katalog
Geräte						🚽 Topologiesicht	🚠 Netzsicht	🛐 Gerätesicht	Optionen
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PN_Tst_B8050_18							-		<suchen></suchen>
📑 Neues Gerät hinzufügen									C Ciler
📥 Geräte & Netze	PLC_1	2150			B8050-ML-PN_	1 B		=	Piler
PLC_1 [CPU 1215C AC/DC/Rly]	Croi	2150			BOOSD-WEFTN V				
🛐 Gerätekonfiguration					PLC_1				▶ 📺 HMI
😼 Online & Diagnose									Antriebe & Starter
🕨 🕁 Programmbausteine				PN/IE 1					• In Netzkomponenten
🕨 🏣 Technologieobjekte									Infassen & Uberwachen
🕨 🔙 Externe Quellen									Dezentrale Peripherie
PLC-Variablen									▼ I Weitere Feldgeräte
Eg PLC-Datentypen									▼ III PROFINET IO
Beobachtungs- und Forcetabellen									▼ III Drives
Programminformationen									Siemens AG
E Textlisten									▼ MTI-AG
🕨 🛅 Lokale Baugruppen									▼ III NTI-AG
🕶 🋅 Dezentrale Peripherie									B8050-ML-PN V1.0
PROFINET IO-System (100): PN/IE_1									B8050-ML-PN V1.1
B8050-ML-PN_1									E1250xPN
Gerätekonfiguration									E1450xPN
😵 Online & Diagnose									E1250xPN V1.1
Axis 1_1									E1450xPN V1.1

Add the B8050-ML-PN V1.x ProfiNet slave devices to the ProfiNet

4 **ProfiNet Parameters**

4.1 Parameters

The ProfiNet Interface has an additional parameter tree branch (Parameters \rightarrow ProfiNet), which can be configured with the distributed LinMot-Talk software.

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With these parameters, the ProfiNet interface can be enabled or disabled. The LinMot-Talk software can be downloaded from <u>http://www.linmot.com</u> under the section download\software and manuals\Servo Drives\.

ProfiNet Dis-/Enable

With the Dis-/Enable parameter the LinMot bus module can be run without the Ethernet ProfiNet interface going online. So in a first step the system can be configured and run without any bus connection.

ProfiNet\ Dis-/Er	nable
Disable	Bus Module runs without ProfiNet.
Enable	Bus Module runs with ProfiNet connection.



IMPORTANT: If the ProfiNet interface is disabled, the integrated ProfiNet-ASIC rests in reset state! No messages will be sent to other devices connected to the ProfiNet-Network via the BM8050-PN Bus Module.



5 Realtime IO Data Mapping

For each axis a container of data is exchanged, which allows to control the axis and even to configure it over the exchanged real time data.

5.1 IO Data Mapping of each Axis

With this real time IO configuration, an additional configuration module is mapped into the IO data communication. The functionality of this module is the same for all the different fieldbus interfaces. For this reason, the functionality is described in documentation [2] "Controller Configuration over Fieldbus".

5.1.1 Output Data Mapping of one axis

In this real time IO mapping the 16 bit control word, the 16 bit motion command header and the motion command parameters are exchanged. The size of this mapping is 32 bytes or **16 words** for each configured axis.

Output	Data Mapping of one Axis	
Byte	Description	Size / Type
Offset		
00h	MC SW_ControlWord	Uint16 / Bit coded
02h	MC SW_MotionCommandHeader	Uint16 / 12Bit Command 4Bit count nibble
04h	MC SW_MotionCommandPar Bytes 0003	Uint32 / Command specific
08h	MC SW_MotionCommandPar Bytes 0407	Uint32 / Command specific
0Ch	MC SW_MotionCommandPar Bytes 0811	Uint32 / Command specific
10h	MC SW_MotionCommandPar Bytes 1215	Uint32 / Command specific
14h	MC SW_MotionCommandPar Bytes 1619	Uint32 / Command specific
18h	Cfg Module Control Word	Uint16
1Ah	Cfg Module Index/	Uint16
1Ch	Cfg Module Value/	Uint32/Sint32

5.1.2 Input Data Mapping of one axis

In this real time IO mapping the StateVar for the main state machine and several other helpful data are exchanged. The size of this mapping is 26 bytes or **13 words** for each configured axis.

Input Dat	a Mapping of one Axis	
Byte	Description	Size / Type
Unset		
00h	MC SW StateVar	Uint16 / coded state depending
02h	MC SW StatusWord	Uint16 / Bit coded
04h	MC SW WarnWord	Uint16 / Bit coded
06h	MC SW DemandPosition	Int32 / Position [100nm]
0Ah	MC SW ActualPosition	Int32 / Position [100nm]
0Eh	MC SW DemandCurrent	Int32 / Current [1mA]
12h	Cfg Module Status Word	Uint16
14h	Cfg Module Index/	Uint16
16h	Cfg Module Value/	Uint32/Sint32

The use of the Control word and Motion Command interface is described in [1]. The real time configuration module is described in [2].



5.2 PLC Setup with different numbers of Axis

5.2.1 PLC Setup with 1 Axis



Projektnavigation 🔲 ·	PN_Tst	_B8050_11 →	PLC_1 [CPU 12	15C AC/I)C/Rly]	 Dezer 	trale Peri	pherie 🕨 PROFINI	ET IO-System (100): PN/IE_1 → B805	io-ml-pn_1	_ # #×	Hardware-Katalog
Geräte									🛃 Topologi	esicht 🛛 🛔 Netzs	icht 📑 Ge	rätesicht	Optionen
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		1	·				_					^	✓ Katalog
PN_Tst_B8050_11												=	<suchen></suchen>
🌁 Neues Gerät hinzufügen													- Filter
📥 Geräte & Netze			_										M rinter
FLC_1 [CPU 1215C AQ/DQRIy]		-		l l									B8050-ML-PN V1.0
Gerätekonfiguration				U.	08050-PH								▼ MTI IO Profile
🗓 Online & Diagnose													Axis 1
🕨 🔜 Programmbausteine													Axis 2
🕨 🏣 Technologieobjekte												~	Axis 3
🕨 🚮 Externe Quellen	<			11				1				> 🗊	Ax15 4
🕨 🔚 PLC-Variablen	-												Axis 5
E PLC-Datentypen	Gerä	iteübersicht											Axis 6
Beobachtungs- und Forcetabellen	-	Peugeuppe		Reuar	Cheak	E Advaces	A Advance	Tue	Restall Nr.	Finnersen	Kananaantar		Axis 7
Programminformationen	Ľ	- PROFO MUR	01.2	Daugr	O.	EMulessi	: AMUIESSE	PROFO MI PN V1 O	01E0 1990	T ID SW Vor	Kummentar	_	Axis 8
Textlisten		 B0000040024 BNUO 	n_1	0	0 11			PODED MILEN	0150-1000	1_10_010_0101		_	
🕨 🥅 Lokale Baugruppen		# FN-IO		0	1	60.00	49.00	boubu-mL-FN		1.0			
🕶 🧊 Dezentrale Peripherie		Add D_1		0	1	6695	0099	Axis 5		1.0			
PROFINET IO-System (100): PN/IE_1				0	2								
B8050-ML-PN_1				0									
Gerätekonfiguration				0	4								
😼 Online & Diagnose				0	0								
🚺 Axis 3_1				0	-								
🕨 🙀 Gemeinsame Daten				0	·								
Dokumentationseinstellungen				0	0								
Sprachen & Ressourcen													
🕨 🔚 Online-Zugänge													
🕨 🤄 SIMATIC Card Reader													

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5.2.2 PLC Setup with 2 Axis



Projektnavigation 🔲 🖣	PN_Tst_B8050_12 → PLC_1 [Cl	PU 1215C AC/	DC/Rly] →	Dezentra	ale Perij	pherie ▶ PROFIN	ET IO-System (100)): PN/IE_1 → B80	50-ML-PN_1 📃 🖬 🖬 🗙	Hardware-Katalog
Geräte							君 Topologie	esicht 🛔 Netzs	icht 📑 Gerätesicht	Optionen
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Gerätekonfiguration	-	6	COUPO-LAN							NILIO Profile
😼 Online & Diagnose										Axis 1
🕨 🔜 Programmbausteine										Axis 2
🕨 🚂 Technologieobjekte					_				~	Axis 3
🕨 🔚 Externe Quellen	<	11							>	Axis 4
PLC-Variablen					1	* · · ·				Axis 5
🕨 📴 PLC-Datentypen	Geräteübersicht									Axis 6
🕨 🤤 Beobachtungs- und Forcetabellen	Baugguppe	Beugr	Steck 8	F-Adresse A	Adresse	Two	Bastall-Mr	Firmware	Kommenter	Axis 7
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Gerätekonfiguration		0	ч с							
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🛄 Axis 4_1		0								
🕨 🧊 Gemeinsame Daten		0	0							
Dokumentationseinstellungen										



5.2.3 PLC Setup with 3 Axis



Projektnavigation 🔲 🕯	PN_Tst_	_B8050_13 → PLC_1 [C	PU 1215C AG	DC/Rly]	▶ Dezen	trale Peri	oherie → PROFIN	ET IO-System (100)	: PN/IE_1 → B80	50-ML-PN_1 🛄 🖬	X
Geräte								🐙 Topologie	sicht 🔥 Netz:	sicht 📑 Gerätesich	at 1
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📥 Geräte & Netze			_								
▼ 1 PLC_1 [CPU 1215C AQ/DQ/RIy]		_	1								
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🕨 🏣 Technologieobjekte											~
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🕨 🌄 PLC-Variablen							* *				
PLC-Datentypen	Gerät	eübersicht									
🕨 🋄 Beobachtungs- und Forcetabellen		Beugruppe	Baugr	Steck	F-Adresse	A-Adresse	Typ	Bestell-Mr	Firmware	Kommenter	
Programminformationen		 B8050-ML-PN_1 	Dungr	0	E Haresse	. marcosc	B8050-ML-PN V1.0	0150-1880	T ID Silf Ver	, internet	
🛓 Textlisten		 PNUO 	0	0.11			B8050-ML-PN	01001000	1_10_011_101		
🕨 🛅 Lokale Baugruppen		Avis 3 1	0	1	68.93	68 99	Avis 3		1.0		
🕶 🌆 Dezentrale Peripherie		Avis d. 1	0	2	94 119	100 191	Avis A		1.0		
🕶 🔛 PROFINET IO-System (100): PN/IE_1		Avia F_1	0	-	100 145	100101	Avis F		1.0		
B8050-ML-PN_1		N05 0_1	0	3	120145	152105	A05 5		1.0		
🕅 Gerätekonfiguration			0	-							
🖞 Online & Diagnose			0	5							
Axis 3_1			0	0							
Axis 4_1			0	·							
Axis 5_1			0	8							
🕨 📑 Gemeinsame Daten											
🕨 🛅 Dokumentationseinstellungen											

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5.2.4 PLC Setup with 4 Axis



Projektnavigation 0	1 🔹 P	N_Tst_B80	050_14 → PLC_1	[CPU 1215C	AC/DC/R	ly] ► Dezer	trale Peri	pherie 🕨 PROFIN	ET IO-System (100)	: PN/IE_1 → B80	50-ML-PN_1	_ # = ×	Hardv
Geräte									🛃 Topologie	sicht 🛔 Netzs	icht 📑 Ger	ätesicht	Opti
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😼 Online & Diagnose													
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PLC-Datentypen		Geräteüb	ersicht										
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📲 Programminformationen			BROSOLMILEN 1	0	n n	K Evidress	e mindresse	B8050-ML-PN V1.0	0150-1880	T ID SW Ver	Kommentar		1
Textlisten			PNUO	0	0.2			B8050-ML-PN	01001000	1_10_014_401			
🕨 🛅 Lokale Baugruppen			Avic 2 1	0	1	60 02	69 00	Avic D		1.0			
🕶 🛅 Dezentrale Peripherie			Avis 4 1	0	2	94 119	100.121	Avis J		1.0			
▼ I PROFINET IO-System (100): PN/IE_1			Avis 5 1	0	-	120, 145	100151	Avie 5		1.0			
			Avis 6_1	0		146 171	164 105	Avia 6		1.0			
🔢 Gerätekonfiguration			A05 0_1	0	4	140171	104195	Aus o		1.0			
😼 Online & Diagnose				0	2								
Axis 3_1				0	5								
Axis 4_1				0									
Mxis 5_1				U	8								
Axis 6_1													
🕨 🙀 Gemeinsame Daten													
Dokumentationseinstellungen													

5.2.5 PLC Setup with 5 Axis



Projektnavigation		PN_Tst_B8050_15 → PLC_	_1 [CPU 1215C AC/I	OC/RIy]	▶ Dezen	trale Peri	pherie 🕨 PROFIN	ET IO-System (10	0): PN/IE_1 → B80	50-ML-PN_1	_∎≡×
Geräte								君 Topolog	iesicht 🔒 Netze	icht 📑 🕅 Ge	rätesicht
1 O O	1	# B8050-ML-PN_1		€ ±	100%	-					
		V				_					^
 PN_Tst_B8050_15 											=
📑 Neues Gerät hinzufügen			_								
📥 Geräte & Netze											
PLC_1 [CPU 1215C AC/DC/Rly]		_									
Gerätekonfiguration		•		88050-PH							
😼 Online & Diagnose											
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🕨 🏣 Technologieobjekte											~
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🕨 🔁 PLC-Variablen						1	• I • I				
PLC-Datentypen		Geräteübersicht									
🕨 🏣 Beobachtungs- und Forcetabellen		Baugruppe	Baugr	Steck	E-Adresse	ArAdresse	Typ	Bestell-Nr	Firmware	Kommentar	
💐 Programminformationen		BB050-ML-PN 1	0	0	enarcosc	Timaresse	B8050-ML-PN V1.0	0150-1880	T ID SWI Ver	Rommentar	
🛓 Textlisten		PN-IO	0	0 X1			B8050-ML-PN	01001000	1_10_011_101		
🕨 🥅 Lokale Baugruppen		Avis 1 1	0	1	68 93	68 99	Avis 1		1.0		
🕶 🌆 Dezentrale Peripherie		Axis 3 1	0	2	94 119	100 131	Axis 3		1.0		
▼ 🤤 PROFINET IO-System (100): PN/IE_1		Avis 4 1	0	3	120 145	132 163	Avis 4		1.0		
B8050-ML-PN_1		Avis 5_1	0	4	146 171	164 195	Avis 5		1.0		
🛐 Gerätekonfiguration		Avis 6_1	0	5	172 197	196 227	Avis 6		1.0		
😵 Online & Diagnose		1000_1	0	6	112	Trounder			1.0		
🚺 Axis 1_1			0	7							
🚺 Axis 3_1			0	8							
Axis 4_1			0								
Axis 5_1											
Axis 6_1											
🕨 🙀 Gemeinsame Daten											
🕨 🛅 Dokumentationseinstellungen											

5.2.6 PLC Setup with 6 Axis



Projektnavigation 🔲 🖣	PN,	_Tst_B	8050_16 → P	'LC_1 [CPU 1	215C AC	(DC/Rly]	▶ Dezen	trale Peri	pherie 🕨 PROFIN	ET IO-System (10	00): PN/IE_1 → B80	50-ML-PN_1	_ # = ×
Geräte										🛃 Topolo	giesicht 🛛 🛔 Netze	sicht 📑 Geri	itesicht
🖆 O O 🖄	dt	8805	50-ML-PN_1	-	. 4	. • ±	100%						- E
													^
▼ 🔄 PN_Tst_B8050_16													E
📑 Neues Gerät hinzufügen													
📥 Geräte & Netze				_									
FLC_1 [CPU 1215C AC/DC/Rly]			_										
Gerätekonfiguration						BBUSB-PH							
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🕨 🏣 Technologieobjekte													~
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PLC-Variablen									A / T				
🕨 💽 PLC-Datentypen	6	Gerätei	ibersicht										
🕨 🎆 Beobachtungs- und Forcetabellen		•	Baugruppe		Baugr	Steck	E-Adresse	A-Adresse	Typ	Bestell-Nr	Firmware	Kommentar	
🔤 Programminformationen			 B8050-MI-PN 	1	0	0			B8050-ML-PN V1.0	0150-1880	T ID SW Ver		
Textlisten			▶ PN-IO		0	0 X1			B8050-ML-PN				
🕨 🫅 Lokale Baugruppen			Avis 1 1		0	1	68 93	68 99	Avis 1		1.0		
👻 🛅 Dezentrale Peripherie			Avis 2_1		ů.	2	94 119	100 131	Avis 2		1.0		
▼ I PROFINET IO-System (100): PN/IE_1			Axis 3_1		0	3	120 145	132 163	Axis 3		1.0		
 B8050-ML-PN_1 			Avis 4 1		0	4	146 171	164 195	Avis 4		1.0		
🕅 Gerätekonfiguration			Avis 5_1		0	5	172 197	196 227	Avis 5		1.0		
😼 Online & Diagnose			Avis 6_1		0	6	108 229	228 259	Avie 6		1.0		
I Axis 1_1			7045 0_1		0	7	170225	220237	7015 0		1.0		
Axis 2_1					0								
Axis 3_1					0	0							
Mxis 4_1													
🚺 Axis 5_1													
Axis 6_1													
🕨 🙀 Gemeinsame Daten													
🕨 🛅 Dokumentationseinstellungen													

5.2.7 PLC Setup with 7 Axis



Projektnavigation 🛛	< PN_"	Tst_B8050_17	PLC_1 [CP	U 1215C AC/) (/Riy]	Dezent	trale Perij	oherie ► PROFIN	ET IO-System (100)	: PN/IE_1 → B80	50-ML-PN_1 📃 🖬 🖬 🗙	Hardware-Katalog
Geräte									🛃 Topologie	sicht 🔒 Netz:	sicht 🛐 Gerätesicht	Optionen
13 O O 13	#	B8050-ML-PN_1] 🖽 🔏 🗄	🔍 ±	100%						
			V				_				^	✓ Katalog
PN_Tst_B8050_17											=	<suchen></suchen>
💕 Neues Gerät hinzufügen												C Silter
📥 Geräte & Netze												rinter rinter
Time PLC_1 [CPU 1215C AQ/DQ/Rly]			-	l l								BBUSU-MLAPN VI U
Gerätekonfiguration				L.	88050-Ph							VIII IO Profile
😼 Online & Diagnose												Axis 1
🕨 😹 Programmbausteine												Axis 2
🕨 🚂 Technologieobjekte											~	Axis 3
🕨 🔚 Externe Quellen	<			11							5	Axis 4
PLC-Variablen								A V				Axis 5
PLC-Datentypen	G	eräteübersicht										Axis 6
Beobachtungs- und Forcetabellen		Beugnunne		Baugr	Steck	F-Adresse	å.ådrosso	Tvo	Restell-Nr	Firmware	Kommenter	Axis 7
Programminformationen		Bencow	ALLENI 1	Daugi	Dieck	Londiesse	AMUIESSE	PROCOMILEN VI 0	0150-1990	T ID SW Ver	Kommenda	Axis 8
i Textlisten		 B00304M B0110 	10114_1	0	0 11			DODGO-MERN VILO	0130-1000	1_10_010_101		
🕨 🥅 Lokale Baugruppen		P FINIO		0	1	49 02	68 00	Avia 1		1.0		
🕶 🛅 Dezentrale Peripherie		Auis 0_1		0	2	00	100.191	Auto 1		1.0		
PROFINET IO-System (100): PN/IE_1		Axis 2_1		0	2	994119 100 14E	100131	Auto 2		1.0		
B8050-ML-PN_1		Aug 2_1		0		120145	152105	Auto a		1.0		
Gerätekonfiguration		Axis 4_1		0	4	140171	104195	Atlis 4		1.0		
🛂 Online & Diagnose		Axis 5_1		0	0	1/219/	190227	Auto o		1.0		
Axis 1_1		Axis 6_1		0	0	190225	220259	Axis b		1.0		
Axis 2_1		Axis 7_1		0	<i>'</i>	224249	260291	Atts 7		1.0		
Axis 3_1				U	8							
Axis 4_1												
Axis 5_1												
Axis 6_1												
🚺 Axis 7_1												
🕨 🙀 Gemeinsame Daten												

5.2.8 PLC Setup with 8 Axis



Projektnavigation 🔲 🖣	PN_Ts	t_88050_18 → I	PLC_1 [CPU 1215	C AC/DC/RI	/] → Dezen	trale Perij	pherie 🕨 PROFIN	ET IO-System (100): PN/IE_1 → B80	50-ML-PN_1 💶 🖬 🖬 🗙	Hardware-Katalog
Geräte								🛃 Topologie	esicht 🖁 🛔 Netzs	icht 🛐 Gerätesicht	Optionen
🖻 O O 🖻	d+ [B8050-ML-PN_1		6 🗉 🔍	± 100%	•					
		1				_				^	✓ Katalog
PN_Tst_B8050_18										=	Suchero
🚔 Neues Gerät hinzufügen											C Church
📥 Geräte & Netze			_		_					_	Flitter
PLC_1 [CPU 1215C AC/DC/Rly]		_		h h						_	B8050-ML-PN V1.0
🛐 Gerätekonfiguration				08050-	PH					_	 Image: NTI IO Profile
😼 Online & Diagnose										_	Axis 1
🕨 🔜 Programmbausteine										_	Axis 2
🕨 🏣 Technologieobjekte										×	Axis 3
🕨 🔙 Externe Quellen	<									۱	Axis 4
🕨 🎑 PLC-Variablen							A 1 T 1				Axis 5
E PLC-Datentypen	Ger	äteübersicht									Axis 6
Beobachtungs- und Forcetabellen		Beugruppe	B	uur Sted	E-Adresse	Adresse	Two	Bestell-Nr	Firmware	Kommenter	Axas 7
Programminformationen		- B8050-ML-Pt	V 1 0	nugr oreco	Evalesse	. Manufesse	B8050-ML-PN V1.0	0150-1880	T ID SW Ver	Kommenedi	Axas 8
E Textlisten		 BOUGGUIMETT PNUO 		0.11			B8050-ML-PN	01501000	1_10_010_101		1
🕨 📷 Lokale Baugruppen		Avis 1 1	0	1	68 93	68 99	Avic 1		1.0		1
🕶 🥅 Dezentrale Peripherie		Avis 2_1	0	2	04 110	100 121	Avia 0		1.0		1
PROFINET IO-System (100): PN/IE_1		Avis 2_1	0	2	120 145	192 169	Avir 9		1.0		1
B8050-ML-PN_1		Avis d 1	0	1	146 171	164 195	Avis A		1.0		1
🛐 Gerätekonfiguration		Avis 5_1	0	-	172 197	104193	Avie 5		1.0		1
😼 Online & Diagnose		Avis 6, 1	0	6	108 228	228 259	Avie 6		1.0		1
🚺 Axis 1_1		Aus 0_1	0	7	223	220209	Avis 0		1.0		1
Axis 2_1		Avis 9_1	0	· ·	224247	200291	Avis 9		1.0		1
Axis 3_1		A03 0_1	0	0	230273	292	70.15 0		1.0		1
Axis 4_1											1
Axis 5_1											1
Axis 6_1											1
Axis 7_1											
Axis 8_1											
🕨 🙀 Gemeinsame Daten											1



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