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Overview of available LinMot PLC libraries & possible PLC/Motion integration using LinMot drives

An application note showing the integration of LinMot drives can be found in the eCatalogue:
http://shop.linmot.com/E/product/0185-1120-E

- On page 2 a list of PLCs is shown where the LinMot drives can be directly integrated as axis (NC, CNC, motion control, ...)
- On page 3 the available plc libraries for LinMot drives integrated as I/O device are listed

Please contact the LinMot support for more information and request

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Drive Profiles

PLC Type	Interface	Integration	Drive Profil	LinMot Drives	Description
Beckhoff TwinCAT 2&3	EtherCAT (CiA402)	As NC / CNC axis	CANopen DS402 / Profile MDP 742	DS & MI	LinMot drives with installed EtherCAT_CiA402 interface firmware can be directly integrated as NC / CNC axis on Beckhoff PLCs
Siemens Simotion Siemens S7-1500	PROFIDrive	As axis (TO)	Standard Telegram 5 SIEMENS Telegram 105	PD & MI	LinMot drives with installed PROFIdrive interface firmware can be directly integrated as TO on a Siemens Simotion, S7-1500 PLC, …
Rockwell / Allen Bradley	EtherNet/IP, CIP Sync	As axis	LinMot instructions and CIP Sync.	CM & MI	LinMot drives with installed EtherNet/IP CIP Sync interface firmware can be integrated as axis on a Rockwell controller.
Schneider PacDrive 3	Sercos III	As axis	FSP_DRIVE	SC & MI	LinMot drives with installed Sercos III interface firmware can be directly integrated as axis on a PacDrive 3.
Bosch Rexroth (IndraControl / IndraMotion)	Sercos III	As axis	FSP_DRIVE	SC & MI	LinMot drives with installed Sercos III interface firmware can be directly integrated as axis on a IndraControl / IndraMotion.
B&R	Powerlink	As ACP10 axis using the SDC interface	LinMot SDC interface function block	PL & MI	LinMot drives with installed Powerlink interface firmware can be integrated as ACP10 axis using the SDC interface.
B&R	Powerlink	As DS402 axis	CANopen DS402 / Profile MDP 742	PL & MI	LinMot drives with installed Powerlink interface firmware can be integrated as DS402 axis.
CoDeSys (Motion)	EtherCAT (CiA402) Drive based homing supported. Use MC_Home function block.	As NC axis	CANopen DS402 / Profile MDP 742	DS & MI	LinMot drives with installed EtherCAT_CiA402 interface firmware can be directly integrated as NC axis on CoDeSys PLCs.
TRIO MC464 (P680)	EtherCAT (CiA402)	As axis	CANopen DS402 / Profile MDP 742	DS & MI	LinMot drives with installed EtherCAT_CiA402 interface firmware can be directly integrated as axis on a TRIO motion controller.
Omron NJ501-1500	EtherCAT (CiA402)	As axis	CANopen DS402 / Profile MDP 742	DS & MI	LinMot drives with installed EtherCAT_CiA402 interface firmware can be directly integrated as axis on a Omron PLC.

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LinMot Libraries (LinMot Drive used as I/O Device)

PLC Type	Interface	Type	Drive	Language	Description	Documentation / Info	Version
Beckhoff TwinCAT 2&3	EtherCAT	Library	EC & MI	ST	LinMot library for Beckhoff TwinCAT. Basic and advanced function blocks for controlling a LinMot servo drive.	Yes (eng/de) / Released	TC2 V1.3.0 TC3 V2.0.0.3
Siemens Step7 2010 CPU S7-300	Profibus / Profinet	Library	DP, PN & MI	AWL	LinMot library for Siemens Step7 2010. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	1V2
Siemens TIA AWL CPU S7-300 CPU S7-1500	Profibus / Profinet	Library	DP, PN & MI	AWL	LinMot library for Siemens TIA Portal. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	1V3 (TIA 13)
Siemens TIA SCL CPU S7-1200 CPU S7-1500	Profibus / Profinet	Library	DP, PN & MI	SCL	LinMot library for Siemens TIA Portal. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	1V3 (TIA 13) 1V4 (TIA 14) 1V5 (TIA 15) 2V0 (TIA 15)
B&R	Powerlink	Library	PL & MI	ST	LinMot Library for B&R AS. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	3V0 (v3.00.2)
Allen Bradley / Rockwell	Ethernet-IP	Instructions (AOI)	IP CM & MI in legacy mode	LD (Ladder)	LinMot instruction set for Allen Bradley / Rockwell. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng) / Released	V1R3 (Studio V31 support), V2R0 for new projects (Studio V36 support)
Windows based (LabVIEW, Excel, Visual Studio, …)	LinUDP (V2) from firmware 6.3	DLL	LU & MI		Dynamic link library to provide functions to control a LinMot drive over LinUDP (LinMot proprietary Ethernet protocol, similiar to LinRS)	Yes (eng/de) / Released	V2 (2.1.1.0)
Windows based (LabVIEW, Excel, Visual Studio, …)	LinRS	DLL	GP (LinRS)		Dynamic link library to provide functions to control a LinMot drive over LinRS	Yes (eng/de) / Released	V1 (1.2.1.1)
Mitsibishi GX Works	CC-Link	Library	C1250-CC C1250-MI E1450-Mi	ST	LinMot library. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	V1 (1.0)

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PLC Type	Interface	Type	Drive	Language	Description	Documentation / Info	Version
CoDeSys Based PLCs	various	Library	various	ST		No / PRELIMINARY	
- CoDeSys 2.x	> Use LinMot CoDeSys 2 Library (1.x.x)						V1.3.0
- CoDeSys 3.x	> Use LinMot CoDeSys 3 Library (2.x.x.x)						V1.1.0.1
							V2.0.0.4
- Bosch Rexroth	> Use LinMot CoDeSys 3 Library (2.x.x.x)						V1.1.0.1
							V2.0.0.4
- Schneider / Elau	> Use LinMot CoDeSys 3 Library (2.x.x.x)						V1.1.0.1
							V2.0.0.4