



Overview of available LinMot PLC libraries / demo projects for LinMot drives

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 and examples for LinMot drives are listed

Please contact the LinMot support for more information and request

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Direct Integration (Drive profile / PLC manufacturer specific)

PLC Type	Interface	Integration	Drive Profil	LinMot Drives	Description
Beckhoff TwinCAT 2&3	EtherCAT (SoE) recommended as drive based homing is supported by the Servo Profile (IDN S-0-0148)	As NC / CNC axis	SoE (Servo Profile over EtherCAT)	C1150-SE-XC-xS C1250-SE-XC-xS E1250-SE-UC E1450-SE-QN-xS	LinMot drives with intalled EtherCAT_SoE interface firmware can be directly integrated as NC / CNC axis on Beckhoff PLCs
	EtherCAT (CiA402) requires external home switch to home the axis directly in the NC	As NC / CNC axis	CANopen DS402 / Profile MDP 742	C1150-DS-XC-xS C1250-DS-XC-xS E1250-DS-UC E1450-DS-QN-xS	LinMot drives with intalled EtherCAT_CiA402 interface firmware can be directly integrated as NC / CNC axis on Beckhoff PLCs
Schneider Electric / ELAU (PacDrive 3)	Sercos III	As axis	FSP_DRIVE	C1250-SC-XC-xS E1250-SC-UC E1450-SC-QN-xS	LinMot drives with intalled Sercos III interface firmware can be directly integrated as axis on a PacDrive 3
Bosch Rexroth (IndraControl / IndraMotion)	Sercos III	As axis	FSP_DRIVE	C1250-SC-XC-xS E1250-SC-UC E1450-SC-QN-xS	LinMot drives with intalled Sercos III interface firmware can be directly integrated as axis on a IndraControl / IndraMotion
TRIO MC464 (P680)	EtherCAT	As axis	TRIO specific	C1150-EC-XC-xS C1250-EC-XC-xS E1250-EC-UC E1450-EC-QN-xS	LinMot drives with intalled EtherCAT interface firmware can be directly integrated as axis on a TRIO MC464
Omron NJ501-1500	EtherCAT (CiA402)	As axis	CANopen DS402 / Profile MDP 742	C1150-DS-XC-xS C1250-DS-XC-xS E1250-DS-UC E1450-DS-QN-xS	LinMot drives with intalled EtherCAT_CiA402 interface firmware can be directly integrated as axis on a Omron
<u>Under Development:</u>					
Siemens Simotion Siemens S7-1500	PROFIDrive	As axis	Standard Telegram 5	C1150-PD-XC-xS C1250-PD-XC-xS E1250-PD-UC E1450-PD-QN-xS	LinMot drives with intalled PROFIdrive interface firmware can be directly integrated as axis on a Siemens Simotion or S7-1500 PLC



Officially released							
PLC Type	Interface	Type	Drive	Language	Description	Documentation / Information	Version
Beckhoff TwinCAT 2&3	EtherCAT / Profibus / CANOpen	Library	E1100 / B1100-GP (CANopen) E1130-DP E1230-DP-UC E1430-DP-QN C1150-EC-XC-xS C1250-EC-XC-xS E1250-EC-UC E1450-EC-QN B8050-ML-EC MB8050-ML-EC	Structured Text (ST)	LinMot library for Beckhoff TwinCAT. Basic and advanced function blocks for controlling a LinMot servo drive. Supported LinMot drives can alternatively (no need for this library) be integrated as Sercos axis (SoE)	Yes (eng/de) / Released	TC2 V1.1.2 TC3 V1.0.0.1
Siemens Step7 2010 CPU S7-300	Profibus / Profinet	Library	E1130-DP E1230-DP-UC E1430-DP-QN C1150-PN-XC-xS C1250-PN-XC-xS E1250-PN-UC E1450-PN-QN B8050-ML-PN MB8050-ML-PN	AWL	LinMot library for Siemens Step7 2010. Basic and advanced funtion blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	V1
Siemens TIA12 AWL CPU S7-300 CPU S7-1500	Profibus / Profinet	Library	E1130-DP E1230-DP-UC E1430-DP-QN C1150-PN-XC-xS C1250-PN-XC-xS E1250-PN-UC E1450-PN-QN B8050-ML-PN MB8050-ML-PN	AWL	LinMot library for Siemens TIA12. Basic and advanced funtion blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	V1
Siemens TIA13 SCL CPU S7-1200 CPU S7-1500	Profibus / Profinet	Library	E1130-DP E1230-DP-UC E1430-DP-QN C1150-PN-XC-xS C1250-PN-XC-xS E1250-PN-UC E1450-PN-QN B8050-ML-PN MB8050-ML-PN	SCL	LinMot library for Siemens TIA13. Basic and advanced funtion blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	V2
B&R	Powerlink / CANOpen	Library	E1100 / B1100-GP (CANopen) C1250-PL-XC-xS E1250-PL-UC B8050-ML-PL	ST	LinMot Library for B&R AS. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng/de) / Released	V1.00.3
Allen Bradley / Rockwell	Ethernet-IP	Addon Instructions (AOI)	E1450-IP-QN E1250-IP-UC C1250-IP-XC-xS B8050-ML-IP	LD (Ladder)	LinMot instruction set for Allen Bradley / Rockwell. Basic and advanced function blocks for controlling a LinMot servo drive	Yes (eng) / Released	V1R1
Omron Cj2	Ethernet-IP	Library	E1450-IP-QN E1250-IP-UC C1250-IP-XC-xS	ST	LinMot instruction set for Omron Cj2. Basic function blocks for controlling a LinMot servo drive	Yes (eng) / Released	V1R0
Windows based (LabVIEW, Excel, Visual Studio, ...)	LinUDP (V2) from FW 6.3	DLL	E1450-LU-QN E1250-LU-UC C1250-LU-XC-xS		Dynamic link library to provide functions to control a LinMot drive over LinUDP (LinMot proprietary Ethernet protocol, similar to LinRS)	Yes (eng/de) / Released	V2R1
Windows based (LabVIEW, Excel, Visual Studio, ...)	LinUDP (V1) up to FW 6.3	DLL	E1450-IP-QN E1250-IP-UC C1250-IP-XC-xS		Dynamic link library to provide functions to control a LinMot drive over LinUDP (LinMot proprietary Ethernet protocol, similar to LinRS)	Yes (eng/de) / Released	V1R2
Windows based (LabVIEW, Excel, Visual Studio, ...)	LinRS	DLL	B1100-GP C1100-GP E1100 E1200-GP E1400-GP		Dynamic link library to provide functions to control a LinMot drive over LinRS	Yes (eng/de) / Released	V1R8



Under development (In most cases a demo project is available)

PLC Type	Interface	Type	Drive	Language	Description	Documentation / Information	Version
Omron	EtherCAT	Library	E1250-EC-UC C1250-EC-XC-xS C1150-EC-XC-xS B8050-ML-EC	ST	LinMot library for Omron. Basic and advanced function blocks for controlling a LinMot servo drive.	No / PRELIMINARY	
CoDeSys Based PLCs - CoDeSys 2.x - CoDeSys 3.x - Bosch Rexroth - Elau	various -> Use LinMot Beckhoff TwinCAT 2 Library -> Use LinMot CoDeSys library (Contact Support) -> Use LinMot CoDeSys library (Contact Support) -> Use LinMot CoDeSys library (Contact Support)	Library	various	ST	Demo project available (with LinMot interface) Demo project available (with LinMot interface) / LinMot drive can be as well integrated as Sercos axis LinMot drive can be as well integrated as Sercos axis	No / PRELIMINARY	
Siemens Simotion	Profibus / Profinet	Library	E1130-DP E1230-DP-UC E1430-DP-QN C1150-PN-XC-xS C1250-PN-XC-xS E1250-PN-UC E1450-PN-QN B8050-ML-PN MB8050-ML-PN	ST	LinMot library for Simotion. Basic and advanced function blocks for controlling a LinMot servo drive	No / PRELIMINARY	