maxon motor

maxon motor ag Brünigstrasse 220 P.O. Box 263 CH-6072 Sachseln Phone +41 41 666 15 00 Fax +41 41 666 16 50 www.maxonmotor.com

EPOS Setup

«Release Notes»

Edition December 2018

SYSTEM REQUIREMENTS

Minimum System Requirements	
Operating System	Windows 10, 8, 7 Windows XP SP3 (EPOS & EPOS2 only)
Processor	Core2Duo 1.5 GHz
Drive	Hard disk drive, 1.5 GB available space
Port	USB 2.0 / USB 3.0
Memory	1 GB RAM
Monitor	Screen resolution 1024 x 768 pixels at high color (16-bit)
Web Browser	Microsoft Internet Explorer 8
Software	Microsoft .NET Framework 2.0 & 4.0

VERSION HISTORY

Edition 32 (2018-12)		
Features	Software	Release of EPOS Studio 3.5
		Release of EPOS Windows DLL 6.5.1.0 (including .Net library, LabVIEW instrument driver)
		Release of EPOS Linux Library 6.5.1.0
	Hardware	Support for EPOS4 Compact 24/1.5 EtherCAT Support for EPOS4 Compact 50/5 EtherCAT
	Firmware	Release of EPOS4 Firmware 0x0150
Changes	Documentation	Document updates: • EPOS Command Library Documentation • EPOS2 Module 36/2 Motherboard Hardware Reference • EPOS4 Feature Chart, Firmware Specification, Firmware Version «Readme», Communication Guide, and Application Notes • All EPOS4 Hardware References • Integration of EPOS4 Compact 24/1.5 & 50/5 EtherCAT into corresponding Hardware References

Edition 31, Revision 2 (2018-08)		
Changes	Software	Release of EPOS Studio 3.4, Revision 2
		Release of EPOS Windows DLL 6.4.2.0
		Bugfix on EPOS4 firmware update stability

Edition 31 (2018-05)		
Features	Software	Release of EPOS Studio 3.4
		Release of EPOS Windows DLL 6.4.1.0 (including .Net library, LabVIEW instrument driver)
		Release of EPOS Linux Library 6.4.1.0
		Release of EPOS USB Driver 2.12.16 Rev.4
	Hardware	Support for EPOS4 Compact 50/8 EtherCAT Support for EPOS4 Compact 50/15 EtherCAT Support for EPOS4 70/15
	Firmware	Release of EPOS4 Firmware 0x0140
	Documentation	Introduction of document EPOS4 70/15 Hardware Reference (May 2018)
Changes	Documentation	Document updates: • EPOS Command Library Documentation • EPOS4 Feature Chart, Firmware Specification, Firmware Version «Readme», and Application Notes • All EPOS4 Hardware References • Integration of EPOS4 Compact 50/8 & 50/15 EtherCAT into corresponding Hardware References

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

2

© 2018 maxon motor. Subject to change without prior notice.

Edition 30 (2017-11)		
Features	Software	Release of EPOS Studio 3.3
		Release of EPOS Windows DLL 6.3.1.0 (including .Net library, LabVIEW instrument driver)
		Release of EPOS Linux Library 6.3.1.0 (new with CANopen support)
	Hardware	Support for EPOS4 EtherCAT Card
	Firmware	Release of EPOS4 Firmware 0x0130
	Documentation	Introduction of document EPOS4 EtherCAT Card Hardware Reference (December 2017)
Changes	Documentation	Document updates: • EPOS2 Feature Chart, Firmware Specification, Application Notes • EPOS2 24/2 Hardware Reference • EPOS2 50/5 Hardware Reference • EPOS2 70/10 Hardware Reference • EPOS4 Feature Chart, Firmware Specification, Firmware Version «Readme», Communication Guide, and Application Notes • All EPOS4 Hardware References

Edition 29 (2017-05)		
Features	Software	Release of EPOS Studio 3.2
		Release of EPOS Windows DLL 6.2.1.0 (including .Net library, LabVIEW instrument driver)
		Release of EPOS Linux Library 6.2.1.0
	Hardware	Support for EPOS4 50/5
	Firmware	Release of EPOS4 Firmware 0x0120
	Documentation	Introduction of document EPOS4 50/5 Hardware Reference (May 2017)
Changes	Documentation	Document updates: • EPOS4 Feature Chart, Firmware Specification, Firmware Version «Readme», Communication Guide, and Application Notes • EPOS2 24/2 Hardware Reference • EPOS2 Module 24/3 Hardware Reference • EPOS2 Module 36/2 Hardware Reference • EPOS4 Module 24/1.5 Hardware Reference • EPOS4 Module 50/5 Hardware Reference • EPOS4 Module/Compact 50/8 Hardware Reference • EPOS4 Module/Compact 50/15 Hardware Reference

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

3

© 2018 maxon motor. Subject to change without prior notice.

Edition 28, Revision 2 (2017-01)		
Changes	Software	Release of EPOS Studio 3.1, Revision 2
		Release of EPOS Windows DLL 6.1.2.0
		Bugfix on EPOS2 USB communication with Windows 10 and USB 3.0

Edition 28 (2016-11)		
Features	Software	Release of EPOS Studio 3.1
		Release of EPOS Windows DLL 6.1.1.0 (including .Net library, LabVIEW instrument driver)
		Release of EPOS Linux Library 6.1.1.0
	Hardware	Support for EPOS4 Module 24/1.5, EPOS4 Compact 24/1.5 CAN, EPOS4 Module 50/5, EPOS4 Compact 50/5 CAN, and EPOS2 24/2 DCX
	Firmware	Release of EPOS4 Firmware 0x0110
	Documentation	Introduction of documents: • EPOS4 Module/Compact 24/1.5 Hardware Reference (November 2016) • EPOS4 Module/Compact 50/5 Hardware Reference (November 2016)
Changes	Software	EPOS USB Driver 2.12.16 Rev.2
	Documentation	Document updates: • EPOS2 Feature Chart, Firmware Specification, and Application Notes • EPOS2 24/2 (Getting Started, Cable Starting Set, and Hardware Reference) • EPOS2 70/10 Hardware Reference • EPOS4 Feature Chart, Firmware Specification, and Communication Guide • EPOS4 Module/Compact 50/8 Hardware Reference • EPOS4 Module/Compact 50/15 Hardware Reference

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

4

© 2018 maxon motor. Subject to change without prior notice.

Edition 27 (2016-06)		
Features	Software	Release of EPOS Studio 3.0
	Hardware	Support for EPOS4 Module 50/8, EPOS4 Compact 50/8 CAN, EPOS4 Module 50/15, and EPOS4 Compact 50/15 CAN
	Firmware	Release of EPOS4 Firmware 0x0100
	Documentation	Introduction of documents: • EPOS4 Feature Chart (June 2016) • EPOS4 Firmware Specification (June 2016) • EPOS4 Communication Guide (May 2016) • EPOS4 Application Notes (May 2016) • EPOS4 Firmware Version «Readme» (June 2016) • EPOS4 Module/Compact 50/8 Hardware Reference (May 2016) • EPOS4 Module/Compact 50/15 Hardware Reference (May 2016)
Changes	Software	EPOS Command Library (DLL) 6.0.1.0 for Windows 64-bit and 32-bit: Support for EPOS4 devices
		NI CompactRIO Library 2.0.0.20: Support of additional hardware (NI 9881, PXI-8531, and PCI-8531)
		EPOS2 USB driver 2.12.16 (FTDI driver)
	Documentation	Renaming of documents: • EPOS2 Feature Comparison Chart as EPOS2 Feature Chart • EPOS2 Application Notes Collection as EPOS2 Application Notes • EPOS3 Application Notes Collection as EPOS3 Application Notes
		EPOS Command Library: Integration of EPOS4
		Various documents updated

Edition 26 (2015-10)		
Changes	Software	Bugfix on error 27555 (Error attempting to apply permissions)

Version 25 (2014-11)		
Features	Firmware	Release of EPOS3 Firmware 0x2211
Changes	Software	EPOS2 Windows 64-bit and 32-bit DLL 5.0.1.0 (including .Net library, LabVIEW instrument driver)
		EPOS2 P Windows 64-bit and 32-bit DLL 1.3.1.0 (including .Net library, LabVIEW instrument driver)
		EPOS Linux library (ARMv6, ARMv7)
		OpenPCS license
	Documentation	Various documents updated

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

5

© 2018 maxon motor. Subject to change without prior notice.

Version 24 (2014-01)		
Features	Firmware	Release of EPOS2 Firmware 0x2126
		Release of EPOS2 P Firmware 0x0205
	Documentation	Introduction of document EPOS2 Feature Comparison Chart (December 2013)

Changes	Software	EPOS2 Windows 64-bit and 32-bit DLL 4.9.5.0 (including .Net library, LabVIEW instrument driver)
		EPOS2 P Windows 64-bit and 32-bit DLL 1.2.4.0 (including .Net library, LabVIEW instrument driver)
		EPOS2 USB driver 2.08.30 (FTDI driver)
	Documentation	Various documents updated

Version 23, Revision 2 (2013-07)		
Features	Software	Internet setups expanded for all EPOS devices
Changes	Software	.Net Framework 2.0 for Windows XP added
		OpenPCS license update for EPOS2 P Firmware 0x0200
		Module MDAC 2.8 deleted
		EPOS2 USB driver 2.08.28 (FTDI driver)

Version 23 (2013-04)		
Features	Software	Release of EPOS Studio 2.00, Revision 2
	Firmware	Release of EPOS2 Firmware 0x2125
Changes	Software	OpenPCS license update May 1, 2013
		EPOS2 Windows 64-bit and 32-bit DLL 4.9.2.0 (including .Net library, LabVIEW instrument driver)
	Documentation	Various documents updated

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018
© 2018 maxon motor. Subject to change without prior notice.

6

Version 22 (2013-01)		
Features	Software	Release of EPOS Studio 2.00
	Firmware	Release of EPOS2 Firmware 0x2124
		Release of EPOS2 P Firmware 0x0204
		Release of EPOS3 Firmware 0x2210
Changes	Software	EPOS2 Windows 64-bit and 32-bit DLL 4.9.1.0 (including .Net library, LabView instrument driver)
		EPOS2 Linux library 4.9.1.0
		EPOS2 USB driver signed
	Documentation	Various documents updated

Version 21 (2012-06)		
Features	Hardware	Support for EPOS3 70/10 EtherCAT
	Documentation	Introduction of documents: • EPOS3 EtherCAT Firmware Specification (March 2012) • EPOS3 EtherCAT Application Notes (March 2012) • EPOS3 EtherCAT Communication Guide (March 2012) • EPOS3 70/10 EtherCAT Hardware Reference, Cable Starting Set, Getting Started (March 2012)
Changes	Software	EPOS2 USB driver 2.08.14 (FTDI driver)
	Documentation	Various documents updated

Version 20 (2012-05)		
Changes	Software	OpenPCS license update May 1, 2012

Version 19 (2011-12)		
Features	Firmware	Release of EPOS2 Firmware 0x2123
		Release of EPOS2 P Firmware 0x0203
Changes	Documentation	Various documents updated

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018
© 2018 maxon motor. Subject to change without prior notice.

7

Version 18 (2011-03)		
Features	Software	Release of EPOS Studio 1.44
	Firmware	Release of EPOS2 Firmware 0x2122
		Release of EPOS2 P Firmware 0x0202
Changes	Software	Support for Windows 2000 ceased
		EPOS2 NI CompactRIO Libary 1.0.10
		EPOS2 Linux library 4.8.1.0
		EPOS2 Windows 64-bit and 32-bit DLL 4.8.2.0 (including .Net library, LabView instrument driver)
		EPOS2 P Windows 64-bit and 32-bit DLL 1.2.2.0 (including .Net library, LabView instrument driver)
	Documentation	Various documents updated

Version 17 (2010-09)		
Features	Software	Release of EPOS Studio 1.43
	Hardware	Support for EPOS2 24/2
	Firmware	Release of EPOS2 Firmware 0x2121
		Release of EPOS2 P Firmware 0x0201
	Documentation	Introduction of documents EPOS2 24/2 Hardware Reference, Cable Starting Set, Getting Started (August 2010)
Changes	Software	EPOS Windows 32-bit DLL 4.7.1.0 (including .Net library, LabView instrument driver)
		EPOS2 P Examples Library 1.1
		EPOS2 P Maxon Utility Library 2.1
		EPOS2 P Windows 32-bit DLL 1.1.1.0 (including .Net library, LabView instrument driver)
		OpenPCS 2008 6.4.3
		EPOS2 USB driver 2.06.02 (FTDI driver)
	Documentation	Various documents updated

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

8

© 2018 maxon motor. Subject to change without prior notice.

Version 16 (2010-04)		
Features	Software	Release of EPOS Studio 1.42
		Introduction of context-sensitive and dynamic help
	Hardware	Support for EPOS2 P 24/5
	Firmware	Release of EPOS2 Firmware 0x2120
	Documentation	Introduction of documents EPOS2 P 24/5 Hardware Reference, Cable Starting Set, Getting Started (April 2010)
Changes	Software	EPOS2 P Windows 32-bit DLL 1.0.1.0 (including .Net library, LabView instrument driver)
		OpenPCS 2008 6.2.1 integrated
		EPOS P Maxon Utility Library 2.0
	Documentation	Various documents updated

Version 15 (2010-02)		
Features	Software	Support for Windows 7 64-bit
	Documentation	Introduction of document EPOS USB Driver Installation (January 2010)

Version 14 (2009-10)		
Features	Software	Introduction of EPOS Windows 32-bit DLL 4.6.1.3 (including .Net library, LabView instrument driver)
	Firmware	Release of EPOS P Firmware 0x0111

Version 13 (2009-04)		
Features	Software	Release of EPOS Studio 1.41
	Hardware	Support for EPOS2 24/5
	Firmware	Release of EPOS2 Firmware 0x2111
	Documentation	Introduction of documents EPOS2 24/5 Hardware Reference, Cable Starting Set, Getting Started (April 2009)
Changes	Software	EPOS P Maxon Utility Library 1.1
	Documentation	Various documents updated

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

9

© 2018 maxon motor. Subject to change without prior notice.

Version 12 (2008-12)		
Features	Software	Release of EPOS Studio 1.40
	Hardware	Support for EPOS2 Module 36/2
	Firmware	Release of EPOS2 Firmware 0x2110
	Documentation	Introduction of documents EPOS2 Module 36/2 Hardware Reference, Cable Starting Set, Getting Started (December 2008)

Version 11 (2008-06)		
Features	Software	Release of EPOS Studio 1.30
		Compilation of one single CD-ROM for entire EPOS family (EPOS, MCD EPOS, EPOS2, EPOS P, MCD EPOS P)

Version 10 (2008-04)		
Changes	Software	License update May 1, 2008

Version 9 (2008-02)		
Features	Documentation	Introduction of documents: • EPOS P Application Examples (February 2008) • EPOS P Best Practice Examples (February 2008)

Version 8 (2007-07)		
Changes		Various bugfixes

Version 7 (2007-05)		
Features	Software	Release of EPOS Studio 1.20
	Firmware	Release of EPOS P Firmware 0x0110
		Release of EPOS Firmware 0x2033

Version 6 (2006-12)		
Changes	Software	License check bugfixed

Version 5 (2006-11)		
Features	Firmware	Release of EPOS Firmware 0x2032

Version 4 (2006-10)		
Changes	Software	Special characters in EDS file removed

Version 3 (2006-09)		
Changes	Software	Release of EPOS Studio 1.10, Revision 1

Version 2 (2006-09)		
Features	Software	Release of EPOS Studio 1.10
	Firmware	Support for MCD EPOS and MCD EPOS P
	Documentation	Introduction of documents: • MCD EPOS Hardware Reference, Cable Starting Set, Getting Started (June/August 2006) • MCD EPOS P Hardware Reference, Cable Starting Set, Getting Started (August 2006)

Version 1 (2006-09)		
Features		Initial version

maxon motor control
EPOS Positioning Controller
EPOS Setup «Release Notes»

Document ID: rel8459
Edition: December 2018

11

© 2018 maxon motor. Subject to change without prior notice.

BRAND NAMES AND TRADEMARK OWNERS

Ether CAT.

EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany

Intel® Core™2 Duo are trademarks of Intel Corporation, USA-Santa Clara, CA

LabVIEW™ is trademark of National Instruments Corporation, USA-Austin TX

Linux® is trademark of Linus Torvalds (The Linux Foundation, USA-San Francisco CA)

Microsoft® Windows® Internet Explorer® are trademarks of Microsoft Corporation, USA-Redmond, WA