

# KINGSTAR 3.6

## SUPPORTED HARDWARE

KS-DOC-x64-0001-R18

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# Servo drives

Device	Information
ABB MicroFlex e190	<a href="https://new.abb.com/drives/low-voltage-ac/motion/microflex-e190">https://new.abb.com/drives/low-voltage-ac/motion/microflex-e190</a>
Beckhoff EL7201-0011	<a href="https://www.beckhoff.com/english.asp?ethercat/el7201.htm">https://www.beckhoff.com/english.asp?ethercat/el7201.htm</a>
CoolDrive A8	<a href="http://bit.ly/2nbHKX9">http://bit.ly/2nbHKX9</a> (Simplified Chinese)
Copley Accelnet	<a href="http://bit.ly/2o2Ckvq">http://bit.ly/2o2Ckvq</a>
Copley Stepnet	<a href="http://bit.ly/2mqUtqx">http://bit.ly/2mqUtqx</a>
Copley Xenus	<a href="http://bit.ly/2nzxcCk">http://bit.ly/2nzxcCk</a>
Delta ASDA-2	<a href="http://bit.ly/2n5J3FC">http://bit.ly/2n5J3FC</a>
Elmo Gold	<a href="http://www.elmomc.com/products/gold-digital-servo-drives-main.htm">http://www.elmomc.com/products/gold-digital-servo-drives-main.htm</a>
ESTUN ProNet-EC	<a href="http://en.estun.com/ProductClass.aspx?id=554">http://en.estun.com/ProductClass.aspx?id=554</a>
Fastech Ezi-SERVO II EtherCAT	<a href="http://fastech.co.kr/new/board/bbs/board.php?bo_table=sub010207_en">http://fastech.co.kr/new/board/bbs/board.php?bo_table=sub010207_en</a>
Faulhaber Motion Controllers Series 5004	<a href="https://www.faulhaber.com/en/products/series/mc-5004-p/">https://www.faulhaber.com/en/products/series/mc-5004-p/</a>
Faulhaber Motion Controllers Series 5005	<a href="https://www.faulhaber.com/en/products/series/mc-5005-s/">https://www.faulhaber.com/en/products/series/mc-5005-s/</a>
Faulhaber Motion Controllers Series 5010	<a href="https://www.faulhaber.com/en/products/series/mc-5010-s/">https://www.faulhaber.com/en/products/series/mc-5010-s/</a>
Faulhaber Motion Control Systems Series MCS	<a href="http://bit.ly/2nQ8XgB">http://bit.ly/2nQ8XgB</a>

<b>Device</b>	<b>Information</b>
Festo CMMP-AS-C2-3A-M3	<a href="https://bit.ly/2jAqN67">https://bit.ly/2jAqN67</a>
Festo CMMT-AS-M3	<a href="https://www.festo.com/">https://www.festo.com/</a>
Festo EMCA	<a href="https://www.festo.com/cms/nl-be_be/60236.htm">https://www.festo.com/cms/nl-be_be/60236.htm</a>
Fuji ALPHA5 Series	<a href="http://www.fujielectric.com/products/servo/alpha5/">http://www.fujielectric.com/products/servo/alpha5/</a>
Han's Robot D-Module Series Modular	<a href="http://en.hansmotor.com/hansagvrobot/162-198.html">http://en.hansmotor.com/hansagvrobot/162-198.html</a>
Hiwin D1/D1-N/D2	<a href="http://bit.ly/2nQeTWZ">http://bit.ly/2nQeTWZ</a>
Inovance IS620N	<a href="http://www.inovance.cn/content/details124_12890.html">http://www.inovance.cn/content/details124_12890.html</a> (Simplified Chinese)
*ITRI Drive 16bit	<a href="https://www.itri.org.tw/eng/">https://www.itri.org.tw/eng/</a>
KEB COMBIVERT F6-K	<a href="http://keblog.com/f6k-ethercat-sto-vfd/">http://keblog.com/f6k-ethercat-sto-vfd/</a>
Kollmorgen AKD EtherCAT Drive	<a href="http://www.kollmorgen.com/en-us/products/drives/servo/akd/">http://www.kollmorgen.com/en-us/products/drives/servo/akd/</a>
Maxon Maxpos	<a href="http://www.maxonmotor.com/maxon/view/content/MAXPOS-Detailsite">http://www.maxonmotor.com/maxon/view/content/MAXPOS-Detailsite</a>
LS Mecapion L7N	<a href="http://www.lsmecapion.com/eng/contents/sub01/sub01_02.php">http://www.lsmecapion.com/eng/contents/sub01/sub01_02.php</a>
Mitsubishi MR-J4-TM	<a href="http://bit.ly/2nApE22">http://bit.ly/2nApE22</a>
*Newport XPS-RL Series	<a href="http://bit.ly/2q34U02">http://bit.ly/2q34U02</a>
Omron G5	<a href="http://www.ia.omron.com/products/family/2644/">http://www.ia.omron.com/products/family/2644/</a>
Panasonic Minas A5 Series	<a href="https://bit.ly/2CY5VBx">https://bit.ly/2CY5VBx</a>

<b>Device</b>	<b>Information</b>
Panasonic Minas A6 Series	<a href="http://bit.ly/2q2zwiv">http://bit.ly/2q2zwiv</a>
Phase AXM II	<a href="http://www.phase.eu/axm-ii/">http://www.phase.eu/axm-ii/</a>
RS Automation CSD7_01BN1	<a href="https://bit.ly/2RsiXuk">https://bit.ly/2RsiXuk</a> (Korean)
Sanyo Denki RF2 <sup>1</sup>	<a href="http://www.sanyodenki.eu/Multi-Axis-Servo-Amplifier-with.html">http://www.sanyodenki.eu/Multi-Axis-Servo-Amplifier-with.html</a>
Sanyo Denki RS2	<a href="http://bit.ly/2nK30Ay">http://bit.ly/2nK30Ay</a>
Sanyo Denki RS2H	<a href="http://bit.ly/2nK30Ay">http://bit.ly/2nK30Ay</a>
Servotronix CDHD	<a href="http://servotronix.com/products/cdhd-servo-drives/">http://servotronix.com/products/cdhd-servo-drives/</a>
Shihlin Electric SDP-E	<a href="http://www.seec.com.tw/en/product/product_list.asp?pno=169">http://www.seec.com.tw/en/product/product_list.asp?pno=169</a>
Sinamics S120 via Robox module	<a href="https://sie.ag/2trx4pv">https://sie.ag/2trx4pv</a> <a href="http://www.robox.it/en-US/showcateg.php?idcap=IO.P">http://www.robox.it/en-US/showcateg.php?idcap=IO.P</a>
TDE OPDE	<a href="http://www.tdemacno.com/en/32.9-02-OPDE.html">http://www.tdemacno.com/en/32.9-02-OPDE.html</a>
Teco JSDG2	<a href="http://globalsa.teco.com.tw/products_series.aspx?KindID=1&amp;ID=4">http://globalsa.teco.com.tw/products_series.aspx?KindID=1&amp;ID=4</a>
TPM SVR-K112	<a href="http://www.tpm-pac.com/">http://www.tpm-pac.com/</a>
TQ Systems SDB-40-100	<a href="http://bit.ly/2rkTNV1">http://bit.ly/2rkTNV1</a>
TSV-HL	Website is unavailable.
Yaskawa Sigma-5	<a href="http://bit.ly/2mO3YLF">http://bit.ly/2mO3YLF</a>
Yaskawa Sigma-7	<a href="http://bit.ly/2mqOEch">http://bit.ly/2mqOEch</a>

<sup>1</sup>Four axes.

\*Yet to be tested.

# Stepper drives

Device	Information
Beckhoff EL7031	<a href="http://www.beckhoff.com/english.asp?ethercat/el7031.htm">http://www.beckhoff.com/english.asp?ethercat/el7031.htm</a>
Beckhoff EL7041 EL7041-1000	<a href="https://www.beckhoff.com/english.asp?ethercat/el7041.htm">https://www.beckhoff.com/english.asp?ethercat/el7041.htm</a>
Beckhoff EL7047	<a href="http://www.beckhoff.com/english.asp?ethercat/el7047.htm">http://www.beckhoff.com/english.asp?ethercat/el7047.htm</a> This stepper drive doesn't support position modes.
Delta R1- EC5621	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Leadshine DM3E-556	<a href="http://www.leisai.com/cn/cpzx/index_36_lcid_327_lcid_22_cid_269.html">http://www.leisai.com/cn/cpzx/index_36_lcid_327_lcid_22_cid_269.html</a> (Simplified Chinese)
Leadshine DM3E-870	<a href="http://www.leisai.com/cn/cpzx/index_36_lcid_328_lcid_22.html">http://www.leisai.com/cn/cpzx/index_36_lcid_328_lcid_22.html</a> (Simplified Chinese)
MOONS' STF06-EC	<a href="http://www.moons.com.cn/Product/Motor_Drive/Drive_Motor/stf/">http://www.moons.com.cn/Product/Motor_Drive/Drive_Motor/stf/</a> (Simplified Chinese)
Oriental Motor AZD2A-KED	<a href="http://www.orientalmotor.co.jp/products/new/1506driver_az/">http://www.orientalmotor.co.jp/products/new/1506driver_az/</a> (Japanese)
Oriental Motor AZD3A-KED	<a href="http://www.orientalmotor.co.jp/products/new/1506driver_az/">http://www.orientalmotor.co.jp/products/new/1506driver_az/</a> (Japanese)
Oriental Motor AZD4A-KED	<a href="http://www.orientalmotor.co.jp/products/new/1506driver_az/">http://www.orientalmotor.co.jp/products/new/1506driver_az/</a> (Japanese)

<b>Device</b>	<b>Information</b>
SANMOTION Model No.PB	<a href="http://www.sanyodenki.us/contents/product_information/sanmotion/closed_loop_stepping_systems/sanmotion_model_no_pb.html">http://www.sanyodenki.us/contents/product_information/sanmotion/closed_loop_stepping_systems/sanmotion_model_no_pb.html</a>
TPM STP- K121-KIT	<a href="http://www.tpm-pac.com/stp-k121-kit">http://www.tpm-pac.com/stp-k121-kit</a>



# EtherCAT I/O modules

Device	Information
Adaptive Robot Gripper 2-Finger	<a href="http://robotiq.com/products/adaptive-robot-gripper/">http://robotiq.com/products/adaptive-robot-gripper/</a>
Advantech ADAM-5000	<a href="http://bit.ly/2pwH2SI">http://bit.ly/2pwH2SI</a>
Advantech AMAX-4800 Series	<a href="http://bit.ly/2iX4yLg">http://bit.ly/2iX4yLg</a>
Beckhoff EK1122 EtherCAT junction	<a href="https://www.beckhoff.com/EK1122/">https://www.beckhoff.com/EK1122/</a>
Beckhoff EL1xxx	<a href="http://bit.ly/2oqx99V">http://bit.ly/2oqx99V</a>
Beckhoff EL2xxx	<a href="http://bit.ly/2o8hKKs">http://bit.ly/2o8hKKs</a>
Beckhoff EL30xx Beckhoff EL31xx Beckhoff EL32xx	<a href="http://bit.ly/1xmoi5c">http://bit.ly/1xmoi5c</a>
Beckhoff EL4xxx	<a href="http://bit.ly/2pwsbb0">http://bit.ly/2pwsbb0</a>
Beckhoff EL5xxx	<a href="http://bit.ly/2o9DMf9">http://bit.ly/2o9DMf9</a>
Beckhoff EL6001 serial interface RS232	<a href="https://bit.ly/2N5W6XT">https://bit.ly/2N5W6XT</a>
Beckhoff EL6021 serial interface RS422/RS485	<a href="https://bit.ly/2x7SNFA">https://bit.ly/2x7SNFA</a>
Beckhoff EL7342	<a href="https://bit.ly/2A9W6O1">https://bit.ly/2A9W6O1</a>
Beckhoff EL9xxx	<a href="http://bit.ly/2p9t1hf">http://bit.ly/2p9t1hf</a>
Beckhoff BK1120	<a href="https://bit.ly/2xbZVQu">https://bit.ly/2xbZVQu</a>
CKD OPP6 Series	<a href="http://www.ckd.co.jp/english/">http://www.ckd.co.jp/english/</a>

<b>Device</b>	<b>Information</b>
DECOWELL EC-HH00-C1NN	<a href="http://www.wellinkio.com/product/50.html">http://www.wellinkio.com/product/50.html</a> (Simplified Chinese)
dieEntwickler RapidoScan	<a href="https://www.rapidoscan.com/">https://www.rapidoscan.com/</a>
*Hilscher CIFX RE/ECS	<a href="https://www.hilscher.com/products/product-groups/pc-cards/">https://www.hilscher.com/products/product-groups/pc-cards/</a>
Hitachi EH IOCA	<a href="http://www.hitachi.com/">http://www.hitachi.com/</a>
ICPDAS ECAT-2045	<a href="http://bit.ly/2pwrRsV">http://bit.ly/2pwrRsV</a>
ICPDAS ECAT-2050	<a href="http://bit.ly/2o83kdm">http://bit.ly/2o83kdm</a>
ICPDAS ECAT-2051	<a href="http://bit.ly/2oBXbZQ">http://bit.ly/2oBXbZQ</a>
ICPDAS ECAT-2052	<a href="http://bit.ly/2o9wMyU">http://bit.ly/2o9wMyU</a>
ICPDAS ECAT-2053	<a href="http://bit.ly/2o9LMfU">http://bit.ly/2o9LMfU</a>
ICPDAS ECAT-2055	<a href="http://bit.ly/2o9K3HE">http://bit.ly/2o9K3HE</a>
ICPDAS ECAT-2055-32	<a href="https://bit.ly/2DYDgvW">https://bit.ly/2DYDgvW</a>
ICPDAS ECAT-2060	<a href="http://bit.ly/2pwrIFl">http://bit.ly/2pwrIFl</a>
Inovance AM600	<a href="https://bit.ly/2Jl53WM">https://bit.ly/2Jl53WM</a> (Simplified Chinese)
Interface PCI-450601	<a href="http://www.interfaceglobal.com/">http://www.interfaceglobal.com/</a>
ITRI PIC32 Slaves	<a href="https://www.itri.org.tw/eng/">https://www.itri.org.tw/eng/</a>
Kashiyama ECAT01	<a href="https://www.kashiyama.com/en/">https://www.kashiyama.com/en/</a>
Leuze bar code scanner BCL 338i	<a href="http://bit.ly/2qxSctU">http://bit.ly/2qxSctU</a>
Nagano Oki NOKECW R-IN32M3-EC	<a href="http://www.naganooki.co.jp/ems_s/sekkei/ether.html">http://www.naganooki.co.jp/ems_s/sekkei/ether.html</a> (Japanese)
Nexcom AXE9200	<a href="http://bit.ly/2oqo0hv">http://bit.ly/2oqo0hv</a>

<b>Device</b>	<b>Information</b>
Nexcom NEIO-B1811/B1812	<a href="http://bit.ly/2xVIFCu">http://bit.ly/2xVIFCu</a>
Omron GX Remote I/O terminals	<a href="http://bit.ly/2oCbjlY">http://bit.ly/2oCbjlY</a>
Prima C-101	<a href="http://bit.ly/2o9GFwv">http://bit.ly/2o9GFwv</a>
Prima C-201	<a href="http://bit.ly/2o9GFwv">http://bit.ly/2o9GFwv</a>
Prima E-101	<a href="http://bit.ly/2o9GFwv">http://bit.ly/2o9GFwv</a>
Prima E-201	<a href="http://bit.ly/2o9GFwv">http://bit.ly/2o9GFwv</a>
R-IN32M3	<a href="http://bit.ly/2pwIRPG">http://bit.ly/2pwIRPG</a>
Ricoh AP-10A	<a href="http://industry.ricoh.com/fbx_system/ap/">http://industry.ricoh.com/fbx_system/ap/</a> (Japanese)
Syn-Tek ESC 6012	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek ESC 70E2	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC5500	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC5512	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC6002	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC6022	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC6032	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC7062	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC8124	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Syn-Tek R1-EC9144	<a href="http://www.deltaww.com/default.aspx?hl=en-US">http://www.deltaww.com/default.aspx?hl=en-US</a>
Tem-Tech Lab. ECG-485	<a href="http://www.tem-tech.co.jp/en/">http://www.tem-tech.co.jp/en/</a>
Toshiba 4-axis SCARA robot controllers TS3000, TSL3000	<a href="https://bit.ly/2C6I4Os">https://bit.ly/2C6I4Os</a> (TS3000) <a href="https://bit.ly/2C5bM6D">https://bit.ly/2C5bM6D</a> (TSL3000)

<b>Device</b>	<b>Information</b>
TPM 207-D240-NX, 207-D204-XN 207-D222-NN, 207-A202F, 207-A202FH, 207-A203F, 207-A204F, 207-A220FID, 207-A220FD	<a href="http://www.tpm-pac.com/plug-in_modules">http://www.tpm-pac.com/plug-in_modules</a>

\*Yet to be tested.

# EtherCAT couplers

EtherCAT couplers can link different modules with them, but only the coupler itself has the EtherCAT capability. These modules don't have the clock synchronization and their polling is slow.

## Balluff

Coupler	Information
BNI0077 IO-Link master	<a href="https://tinyurl.com/yb8lmtvt">https://tinyurl.com/yb8lmtvt</a>

## Beckhoff

Coupler	Information
EL6224 IO-Link terminal	<a href="https://www.beckhoff.com/english.asp?ethercat/el6224.htm">https://www.beckhoff.com/english.asp?ethercat/el6224.htm</a>
EL6751 CANopen master terminal	<a href="https://www.beckhoff.com/english.asp?ethercat/el6751.htm">https://www.beckhoff.com/english.asp?ethercat/el6751.htm</a>
EP6224 IO-Link master	<a href="https://www.beckhoff.com/english.asp?fieldbus_box/ep6224.htm">https://www.beckhoff.com/english.asp?fieldbus_box/ep6224.htm</a>
EP6228 IO-Link master	<a href="https://www.beckhoff.com/english.asp?fieldbus_box/ep6228.htm">https://www.beckhoff.com/english.asp?fieldbus_box/ep6228.htm</a>

## Friedrich Lütze

Coupler	Information
LCOS-BC-PN	<a href="http://bit.ly/2rxlg24">http://bit.ly/2rxlg24</a>

## PHOENIX CONTACT

Coupler	Information
AXL E EC IOL8 DI4 M12 6P	<a href="http://bit.ly/2nHBG80">http://bit.ly/2nHBG80</a>
Bus Coupler - AXL F BK EC	<a href="http://bit.ly/29xnbuh">http://bit.ly/29xnbuh</a>
IL EC BK-PAC	<a href="http://bit.ly/2rkJa10">http://bit.ly/2rkJa10</a> (Simplified Chinese)

## VIPA

Coupler	Information
VIPA SLIO EtherCAT Coupler	<a href="http://www.vipa.com/en/products/io-systems/slio/">http://www.vipa.com/en/products/io-systems/slio/</a>

## WAGO

Coupler	Information
750-354 EtherCAT Fieldbus Coupler	<a href="http://bit.ly/2h4vDcu">http://bit.ly/2h4vDcu</a>

## Weidmüller

Coupler	Information
UR20-4DI-P	<a href="http://bit.ly/2rkBT4X">http://bit.ly/2rkBT4X</a>
UR20-FBC-EC	<a href="http://bit.ly/2qxTtkz">http://bit.ly/2qxTtkz</a>
UR67-MP-78-8DIDO-12-60M	<a href="http://bit.ly/2pZpVd8">http://bit.ly/2pZpVd8</a>

# Get support

KINGSTAR offers a number of support options for KINGSTAR users, including third-party, online and phone support.

## Third-party support

If you are a customer who purchased a KINGSTAR product through a third-party reseller, contact the reseller for support.

## Online support

The KINGSTAR Customer Support web page is located at:

<http://kingstar.com/support/>

The KINGSTAR support web pages provide electronic access to the latest product releases, documentation, and release notes. You can access the online support ticketing system to submit issues or questions.

## Before calling technical support

Please have the following information ready before calling KINGSTAR Technical Support:

### The version number of your RTX64 and KINGSTAR software

To obtain the RTX64 version number:

1. Click **Start > All Programs > RTX64 3.5 Runtime > Control Panel**.
2. In the **RTX64 3.5 Control Panel**, record **Version** shown in the **Runtime Information** area.

To obtain the KINGSTAR version number:

1. Click **Start > All Programs > KINGSTAR > Runtime**.
2. In **Windows Explorer**, click the `ksm64.rtdll` file, and right-click the same file again.
3. On the shortcut menu, click **Properties**.

4. In the **ksm64.rtdll Properties** window, click the **Details** tab, and record **Product version**.

## Phone support

For technical support related to installing and using KINGSTAR, please call technical support at this number:

+886-2-2556-8117

Hours are Monday – Friday from 9:30 to 17:30, UTC+08:00, excluding holidays.