

KINGSTAR 4.5.3

SUPPORTED HARDWARE

KS-DOC-x64-0001-R32

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Servo drives

Device	Information
ABB MicroFlex e190	https://new.abb.com/drives/low-voltage-ac/servo-products/microflex-e190
ACS Motion Control IDM	http://acsmotioncontrol.com/products/idm-servo-drives/idmsm/
Axor Mack Uninano (MKUN) series	http://www.axorindustries.com/en/products/mack-uninano/
Baumüller b maXX 2500	http://www.baumueller.com/en/products/drive-electronics/servo-drives
Baumüller b maXX 5500	http://www.baumueller.com/en/products/drive-electronics/servo-drives/bmaxx5500
Beckhoff EL7211- 0010	http://www.beckhoff.com/en-en/products/i-o/ethernet-terminals/el7xxx-compact-drive-technology/el7211-0010.html
Beckhoff EL7201- 0011	http://www.beckhoff.com/en-en/products/i-o/ethernet-terminals/el7xxx-compact-drive-technology/
Beckhoff EL7221- 9014	http://www.beckhoff.com/en-us/products/i-o/ethernet-terminals/el7xxx-compact-drive-technology/el7221-9014.html
Copley Accelnet	http://www.copleycontrols.com/en/products

Device	Information
Copley AEV	http://www.copleycontrols.com/en/products
Copley Stepnet	http://www.copleycontrols.com/en/products
Copley Xenus	http://www.copleycontrols.com/en/products
Delta ASDA-A2 series	http://bit.ly/2n5J3FC
Delta ASDA-A3 series	http://bit.ly/2VteaQB
Elmo Gold	http://bit.ly/37vpf7O
ESTUN ProNet-EC	http://www.estun.com/?list_23/ (Simplified Chinese)
ESTUN ProNet Summa ED3S ¹	http://www.estun.com/?list_23/433.html (Simplified Chinese)
Etel AccurET 400	http://www.etel.ch/motion-control/accuret-modular/
Faulhaber Motion Controllers series 5004	http://www.faulhaber.com/en/products/series/mc-5004-p/
Faulhaber Motion Controllers series 5005	http://www.faulhaber.com/en/products/series/mc-5005-s/
Faulhaber Motion	http://www.faulhaber.com/en/products/series/mc-5010-s/

Device	Information
Controllers series 5010	
Faulhaber Motion Control Systems series MCS	http://www.faulhaber.com/en/products/motors-with-integrated-electronics/faulhaber-mcs/
Festo CMMP-AS- C2-3A-M3	http://www.festo.com/us/en/a/1501325/
Festo CMMT-AS- M3	http://www.festo.com/
Festo EMCA	http://www.festo.com/cms/nl-be_be/60236.htm (Dutch)
Fuji ALPHA5 series	http://www.fujielectric.com/products/servo/alpha5/
Han's Robot D-Module series Modular	http://www.hansrobot.net/elfin
HDT NTT 240/460	http://www.hdtlovato.com/ntt240-874 http://www.hdtlovato.com/ntt460-238
HIWIN D1/D1- N/D2 Rev4	http://www.hiwinmikro.tw/en/product/controller-drive
HIWIN E1 ²	http://www.hiwinmikro.tw/en/product/controller-drive/drive-e1
Ingenia Capitan	http://ingeniamc.com/servo-drives/capitan-xcr-panel-mount-ethernet/

Device	Information
XCR-E	
Ingenia Everest XCR 30/80	http://ingeniamc.com/servo-drives/dc/ethercat/everest-xcr-30a-80v-panel-mount
Inovance IS620N	https://www.inovance.eu/products/servo-drives-motors/is620n-servo-drive
Inovance SV635N	https://www.inovance.eu/products/servo-drives-motors
*ITRI Drive 16bit	http://www.itri.org.tw/english/
KEB COMBIVERT F6-K	http://www.kebamerica.com/products/combivert-f6/
Kinco FD3	http://en.kinco.cn/productdetail/33.html
Kollmorgen AKD EtherCAT Drive	http://www.kollmorgen.com/en-us/products/drives/servo/akd/
LS Mecapion L7N	http://www.lsmecapion.com (Korean)
Maxon Motor EPOS4 70/15	http://www.maxongroup.com/maxon/view/product/control/Positionierung/594385
Maxon Motor Maxpos	http://www.maxongroup.com/maxon/view/content/MAXPOS-Detailsite

Device	Information
Metronix BL 4102-C	http://www.metronix.de/metronixweb/index.php?id=122&L=1
Mitsubishi MR-J4-TM	http://us.mitsubishielectric.com/fa/en/products/drive-products/ac-servos-melservo/melservo-j4/servo-amplifier/mrj4tmecat
Mitsubishi MR-J5-G-N1	http://www.mitsubishielectric.com/fa/products/drv/servo/pmerit/mr_j5/amp/feature.html
*Newport XPS-RL series	http://www.newport.com/c/xps-universal-multi-axis-motion-controller (Simplified Chinese)
Omron G5	http://www.ia.omron.com/products/family/2644/
Panasonic Minas A5 series	http://www3.panasonic.biz/ac/ae/motor/fa-motor/ac-servo/a5/index.jsp
Panasonic Minas A6 series	http://www3.panasonic.biz/ac/ae/motor/fa-motor/ac-servo/a6/index.jsp
Panasonic Minas A6BM	http://www3.panasonic.biz/ac/e/motor/fa-motor/ac-servo/ethercat/index.jsp
Phase AXM II	http://www.phase.eu/en/products/drive-technology/drive-controller/ax-drives/
RS Automation CSD7_01BN1	http://eng.rsautomation.shop/shop/shop.php?ptype=view&prdtype=2010070007
Sanyo Denki RF2 ³	http://www.sanyodenki.com/

Device	Information
Sanyo Denki RS2	http://bit.ly/2nK30Ay
Sanyo Denki RS2H	http://bit.ly/2nK30Ay
Sanyo Denki RS3 3E	http://bit.ly/2nK30Ay
Schneider Electric Lexium 28E and BCH2	http://bit.ly/2xPoEec
Servotronix CDHD	http://www.servotronix.cn/product/cdhd-servo-drives/
Shihlin Electric SDP-E	http://bit.ly/3oigUKG
Sinamics S120 via Robox module	http://sie.ag/3mhZD2v http://www.robox.it/en-US/showcateg.php?idcap=IO.P
TDE OPDE	http://www.bdfindustriesgroup.com/products/opde/
Teco JSDG2	http://globalsa.teco.com.tw/products_series.aspx?KindID=1&ID=4
TPM SVR-K111	http://www.tpm-pac.com/product/svr-k111/
TPM SVR-K112	http://www.tpm-pac.com/product/svr-k112/
TQ Systems SDB-40-100	http://www.tq-group.com/en/products/tq-robodrive/

Device	Information
Tsino Dynatron CoolDrive A8	http://www.tsino-dynatron.com/en/common/product_detail.aspx?nodeid=255
TSV-HL	Website is unavailable.
Wittenstein cyber simco	https://cyber-motor.wittenstein-us.com/products/servo-drives/
XINJE-DS5-C	http://www.xinje.com/xj_product/show-3831.html (Simplified Chinese)
YAKO MS-Mini3E	http://www.yakotec.com/index.php/proview-137-42.html
Yaskawa Sigma-5	http://www.yaskawa.com/products/motion/sigma-5-servo-products
Yaskawa Sigma-7	http://www.yaskawa.com/products/motion/sigma-7-servo-products

¹ Supports only Profile Velocity (PV), Profile Position (PP), and Cyclic Synchronous Position (CSP).

² `homingSlave` may not work at times due to a firmware issue.

³ Four axes.

*Yet to be tested.

Stepper drives

Device	Information
Applied Motion Products SS05-EC-D	http://www.applied-motion.com/products/stepservo-drives/ss05-ec-d
Applied Motion Products STF-EC	http://www.applied-motion.com/products/series/stf-stepper-drives
Beckhoff EL7031	http://www.beckhoff.com/en-us/products/motion/servo-drives/i-o-components/el7031.html
Beckhoff EL7037	http://www.beckhoff.com/en-us/products/motion/servo-drives/i-o-components/el7037.html
Beckhoff EL7041, EL7041-1000	http://www.beckhoff.com/en-us/products/motion/servo-drives/i-o-components/el7041.html
Beckhoff EL7047	http://www.beckhoff.com/en-us/products/i-o/ethernet-terminals/el7xxx-compact-drive-technology/el7047.html This stepper drive doesn't support position modes.
Delta R1-EC5621	http://www.deltaww.com/zh-tw/products/06020302/3291/ (Traditional Chinese)
Fastech Ezi-SERVO II EtherCAT	http://fastech.co.kr/new/board/bbs/board.php?bo_table=sub010207_en
Fastech Ezi-SERVO II 4X	http://fastech.co.kr/new/eng/sub0102-1001.php

Device	Information
EtherCAT	
Fastech Ezi-Step II	http://fastech.co.kr/new/eng/sub0105-0701.php
Kinco FM880	http://en.kinco.cn/productdetail/fmxlzxbjqdq52.html
Leadshine DM3E-556	http://www.leisai.com/cn/cpzx/index_36_lcid_327_lcid_22_cid_269.html (Simplified Chinese)
Leadshine DM3E-870	http://www.leisai.com/cn/cpzx/index_36_lcid_328_lcid_22_cid_269.html (Simplified Chinese)
MOONS' SSDC06-EC	https://www.moonsindustries.com/search?searchTypeCd=products&text=SSDC06-EC
MOONS' STF06-ECX	https://www.moonsindustries.com/p/stf-series-fieldbus-control-dc-stepper-drives/stf06-ecx-000004696351004725
MOONS' STF-ECX-H series	https://www.moonsindustries.com/search?searchTypeCd=products&text=STF-ECX-H
MOONS' STF05-4XU-ECX	https://www.moonsindustries.com/p/stf-series-fieldbus-control-dc-stepper-drives/stf05-4xu-ecx-000004696351006598
MOONS' SSDC06-ECX-H	https://www.moonsindustries.com/p/ssdc-series-step-servo-drives/ssdc06-ecx-h-000004696351004288
MOONS' SSDC06W-EC-H	https://www.moonsindustries.com/search?searchTypeCd=products&text=SSDC06W-EC-H
MOONS' STF06-EC	https://www.moonsindustries.com/search?searchTypeCd=products&text=STF06-EC
Oriental	https://catalog.orientalmotor.com/item/all-categories-legacy-

Device	Information
Motor AZD2A-KED	products/azd-multi-axis-drivers-legacy/azd2a-ked
Oriental Motor AZD3A-KED	https://catalog.orientalmotor.com/item/az-series-multi-axis-controllers-drivers/ethercat-multi-axis-controllers-az-dc-input/azd3a-ked
Oriental Motor AZD4A-KED	https://catalog.orientalmotor.com/item/az-series-multi-axis-controllers-drivers/ethercat-multi-axis-controllers-az-dc-input/azd4a-ked
Oriental Motor AZD- CED	https://catalog.orientalmotor.com/item/ethercat-compatible-drivers/ries-ethercat-compatible-drivers-ac-input/azd-ced
SANMOTIO N Model No.PB	http://bit.ly/2EgWnkc
Servotronix stepIM	http://www.servotronix.com/product/stepim-integrated-closed-loop-steppers/
TPM STP- K121-KIT	http://www.tpm-pac.com/product-2/ethercat-2/
TPM STP- K121B	http://www.tpm-pac.com/product-2/ethercat-2/
TROY SDR- D2-60	http://www.troymotor.com/en/page-1477/STEPPER-MOTOR-DRIVER-SERIES.html

I/O modules

Device	Information
Advantech ADAM-5000 series	http://bit.ly/2RKLX6y
Advantech AMAX-4800 series	http://bit.ly/3vGqXw8
Beckhoff BK1120	http://bit.ly/3mWwxqX
Beckhoff EtherCAT Terminals, digital input: EL1002, EL1004, EL1008, EL1012, EL1014, EL1018, EL1024, EL1034, EL1084, EL1088, EL1094, EL1098, EL1104, EL1114, EL1124,	http://bit.ly/3mVJcdM

Device	Information
EL1134, EL1144, EL1202, EL1252-0050, EL1262, EL1702, EL1712, EL1722, EL1804, EL1808, EL1809, EL1814, EL1819, EL1859, EL1862, EL1872, EL1889, EL1904, EL1918	
Beckhoff EtherCAT Terminals, digital output: EL2002, EL2004, EL2008, EL2022, EL2024, EL2032, EL2034, EL2042, EL2084,	http://bit.ly/3duA90g

Device	Information
EL2088, EL2124, EL2202, EL2212, EL2252, EL2262, EL2502, EL2521, EL2535, EL2595, EL2602, EL2612, EL2622, EL2624, EL2712, EL2722, EL2732, EL2798, EL2808, EL2809, EL2828, EL2872, EL2889, EL2904	
Beckhoff EtherCAT Terminals, analog input: EL3001, EL3002, EL3004,	http://bit.ly/3alm9Ux

Device	Information
EL3008,	
EL3011,	
EL3012,	
EL3014,	
EL3021,	
EL3022,	
EL3024,	
EL3041,	
EL3042,	
EL3044,	
EL3048,	
EL3051,	
EL3052,	
EL3054,	
EL3058,	
EL3061,	
EL3062,	
EL3064,	
EL3068,	
EL3101,	
EL3102,	
EL3104,	
EL3111,	
EL3112,	
EL3114,	
EL3121,	
EL3122,	
EL3124,	
EL3141,	
EL3142,	
EL3144,	
EL3151,	
EL3152,	

Device	Information
EL3164, EL3201, EL3202, EL3204, EL3208, EL3255, EL3311, EL3312, EL3314, EL3318, EL3351, EL3356, EL3443, EL3602, EL3611-1030, EL3612, EL3632, EL3681, EL3692, EL3751	
Beckhoff EtherCAT Terminals, analog output: EL4001, EL4002, EL4004, EL4008, EL4011, EL4012, EL4014, EL4018, EL4021,	http://bit.ly/3gna3y6

Device	Information
EL4022, EL4024, EL4028, EL4031, EL4032, EL4034, EL4038, EL4102, EL4104, EL4112, EL4114, EL4122, EL4124, EL4132, EL4134	
Beckhoff EtherCAT Terminals, position measurement: EL5101, EL5151, EL5152	http://bit.ly/3sDzaPL
Beckhoff EtherCAT Terminals, communication: EL6001, EL6002, EL6021, EL6022,	http://bit.ly/3e6zr8g https://www.beckhoff.com/en-us/products/automation/twinsafe/twinsafe-hardware/

Device	Information
EL6224, EL6695, EL6751*, EL6900, EL6910 *: The device may need more connection time during startup on certain PCs.	
Beckhoff EL7342 EtherCAT terminal	http://bit.ly/3tuB729
Beckhoff EtherCAT Terminals, system: EL9110, EL9160, EL9210, EL9260, EL9410, EL9505, EL9508, EL9510, EL9512, EL9515, EL9560	http://bit.ly/3mVRZfG

Device	Information
Beckhoff EP (P)1008, EPP1321, EPP1332, EPP1342, EP (P)1809, EP (P)2008, EP (P)2028, EP (P)2308, EP (P)2316, EP (P)2339, EP (P)2809, EP (P)3174, EP (P)3314, EP (P)3744, EP (P)4174, EP (P)4374, EP6224, EP (P)6228, EP (P)7342	EP1xxx: http://bit.ly/3tAq47u EPP1xxx: http://bit.ly/3gi7u0d EP2xxx: http://bit.ly/3gidICE EP23xx: http://bit.ly/2P0sqqR EPP2xxx: http://bit.ly/3uZKk2H EP3xxx: http://bit.ly/3dvQ7XQ EPP3xxx: http://bit.ly/3mYnKok EP4xxx: http://bit.ly/32sS3Kg EPP4xxx: http://bit.ly/3swkH7Q EP6xxx: http://bit.ly/3swf0af EPP6xxx: http://bit.ly/2RMstOv EP7xxx: http://bit.ly/2Q4WKYp EPP7xxx: http://bit.ly/2Q4WPLH
Berghof E I/O modules	https://www.ethercat.org/en/products/2722316BBE5E4662B715E1F1CC25C673.htm
Berghof ECC I/O modules	https://www.sdt.se/eur/products/controllers/plc/berghof-controllers/berghof-ecc.html
Brunner GER1085 I/O module	http://www.brunner-innovation.swiss/product/ethercat-io/
DECOWELL: EC-HH00- C1NN EX-1100	http://www.welllinkio.com/product/50.html (Simplified Chinese)

Device	Information
EX-310H	
EX-210H	
EX-5454	
EX-4454	
Dinkle GFE- BR01, GFE- BR02, GFE- DI01, GFE- DI02, GFE- DQ01, GFE- DQ02	http://www.dinkle.com/en/home
Fastech Ezi-IO	http://fastech.co.kr/new/eng/sub0111.php
Hofo Kingservo: KSTE-P- DO32N KSTE-P-DI32N KSTE-P-DR12	http://www.hofo.com.tw/zh-tw/goods.php?act=view&id=12 (Traditional Chinese)
ICPDAS ECAT- 2045	http://bit.ly/3affStv
ICPDAS ECAT- 2050	http://bit.ly/3abk2Td
ICPDAS ECAT- 2051	http://bit.ly/3ssnyie
ICPDAS ECAT- 2052	http://bit.ly/2QpImcW
ICPDAS ECAT- 2053	http://bit.ly/3e5KD5a

Device	Information
ICPDAS ECAT-2055	http://bit.ly/2RE8oKa
ICPDAS ECAT-2055-32	http://bit.ly/3mU4gkx
ICPDAS ECAT-2060	http://bit.ly/3ag0Svq
KEYENCE CB-NEC20E	https://www.keyence.com/products/measure/laser-2d/lj-x8000/models/cb-nec20e/
Kuhnke Ventura Fast IO (VFIO)	http://bit.ly/2IYUrIJ
Nexcom AXE9200	http://bit.ly/3an7WXc
Nexcom NEIO-B1811/B1812	http://bit.ly/3x1JXXn
Omron GX Remote I/O terminals	http://bit.ly/3xfe1in
PLANET: IECS-1116-DI IECS-1116-DO	https://www.planet.com.tw/en/search?keyword=IECS-1116-DIGIO
Prima Electro C-101	http://www.primaelectro.com/en/
Prima Electro C-201	http://www.primaelectro.com/en/
Prima Electro E-101	http://www.primaelectro.com/en/

Device	Information
Prima Electro E-201	http://www.primaelectro.com/en/
Renesas R-IN32M3	http://bit.ly/3vpTRRc
Syn-Tek ESC 6012	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek ESC 70E2	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC5500	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC5512	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC6002	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC6022	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC6032	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC7062	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC8124	http://www.deltaww.com/default.aspx?hl=en-US
Syn-Tek R1-EC9144	http://www.deltaww.com/default.aspx?hl=en-US
TPM 207-D240-NX, 207-D204-XN	http://www.tpm-pac.com/products/?filters=product_cat%5B44%5D

Device	Information
207-D222-NN, 207-A202F, 207-A202FH, 207-A203F, 207-A204F, 207-A220FID, 207-A220FD	
Vitrox iD5016-1B	Website is unavailable.
Weidmüller: UR20_4DI_ 4DO_PN_ FSOE_V2	https://eshop.weidmueller.com/en/ur20-4di-4do-pn-fsoe-v2/p/2464580000
XINJE XINJE-LC3-AP	https://college.xinje.net/uncategorized/ (Simplified Chinese)
YOUTOOL: EC- MX16Y16LT- MA EC-MX32LT- MA EC-MY32RT-T- JSP	https://www.youtool.com.tw/products.php (Traditional Chinese)

Couplers

EtherCAT couplers can be connected to different modules, 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	http://www.balluff.com/en/de/productfinder/product/?key=BNI0077#/

Beckhoff

Coupler	Information
EK1100, EK1101, EK1110, EK1122, EK1501, EK1541, EK1814, EK1818, EK1828	http://www.beckhoff.com/en-us/products/i-o/ethercat-terminals/ek1xxx-bk1xx0-ethercat-coupler/

Friedrich Lütze

Coupler	Information
LCOS-BC-PN	http://www.luetze.com/catalogue/control/industrial-communication-bus-coupler-0/7780001301-profinet-bus-coupler-0/

Festo

Coupler	Information
CPX-AP-I-EC-M12	http://www.festo.com/us/en/a/8086609/?q=~:orderCode-asc

ICPDAS

Coupler	Information
ICPDAS ECAT-2093 Three-Channel Incremental Encoder Counter	http://www.icpdas.com/en/product/ECAT-2093

IFM

Coupler	Information
IFM AL1332 IO-Link master	http://www.ifm.com/tw/zh/product/AL1332 (Traditional Chinese)

National Instrument

Coupler	Information
NI-9144, NI-9145 CompactRIO Chassis	http://www.ni.com/en-us/support/model.ni-9144.html http://www.ni.com/en-us/support/model.ni-9145.html

Omron

Coupler	Information
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Omron NX-ECC203 series

<http://industrial.omron.eu/en/products/NX-ECC203>

PHOENIX CONTACT

Coupler	Information
AXL E EC IOL8 DI4 M12 6P	http://bit.ly/2nHBG80
Bus Coupler - AXL F BK EC	http://bit.ly/29xnbeh
IL EC BK-PAC	http://bit.ly/34k0VDY

WAGO

Coupler	Information
750-354 EtherCAT Fieldbus Coupler	http://www.wago.com/us/controllers-bus-couplers-i-o/fieldbus-coupler-ethernetcat/p/750-354

Weidmüller

Coupler	Information
UR2 0- 4DI- P	http://bit.ly/2rkBT4X
UR2 0- FBC- EC	http://bit.ly/2qxTtkz
UR6	http://bit.ly/2pZpVd8

7-
MP-
78-
8DI
DO-
12-
60M

UR2 [https://catalog.weidmueller.com/catalog/Start.do;jsessionid=4E07619B93A376](https://catalog.weidmueller.com/catalog/Start.do;jsessionid=4E07619B93A37601982CF4AAF91716C9?ObjectID=1315740000&page=Product)
0- [01982CF4AAF91716C9?ObjectID=1315740000&page=Product](https://catalog.weidmueller.com/catalog/Start.do;jsessionid=4E07619B93A37601982CF4AAF91716C9?ObjectID=1315740000&page=Product)
4CO
M-
IO-
LINK

YASKAWA

Coupler	Information
VIPA SLIO EtherCAT Coupler	http://www.vipa.com/en/products/io-systems/slio/

Others

Device	Information
Adaptive Robot Gripper 2-Finger	http://robotiq.com/products/adaptive-robot-gripper/
Advantech AMAX-3285IO slave module ¹	http://bit.ly/2T6NX5i
CKD OPP6 series	http://www.ckd.co.jp/kiki/en/
dieEntwickler RapidoScan	http://www.rapidoscan.com/
Hitachi EH IOCA	http://hiflex.nl/eh-ioca
*Hilscher CIFX RE/ECS	http://www.hilscher.com/products/product-groups/pc-cards/
ICOP QEC-R00HU9S-N HID module	https://icop-shop.com/product/qec-r00hu9s-n/
Inovance AM600	https://www.inovance.eu/products/motion-controllers-i/o-modules/am600-motion-controllers
Interface PCI-450601	http://www.interface.co.jp/catalog/prdc.asp?name=pci-450601 (Japanese)
ITRI PIC32 Slaves	http://www.itri.org.tw/english/
Kashiyama ECAT01	http://www.kashiyama.com/en/
Omron 3G3AX-MX2-ECT inverter	http://automation.omron.com/en/us/products/family/3G3MX2
Omron GX-JC03 /	http://www.ia.omron.com/products/family/3079/

Device	Information
JC06 junction slave	
Leuze bar code scanner BCL 338i	http://bit.ly/3yAzseU
Nagano Oki NOKECW R-IN32M3-EC	http://www.oki-ont.jp/dms/ether.html (Japanese)
National Instrument CompactRIO Chassis: NI-9144, 9145 Modules: NI-9201, 9203, 9205, 9206, 9207, 9208, 9209, 9210-9220, 9221-9229, 9234-9237, 9239, 9242, 9244, 9263-9266, 9269, 9344, 9375, 9381, 9401-9403, 9411, 9421-9423, 9425-9426, 9435-9437, 9472, 9474-9478, 9481-9482, 9485, 9512, 9514, 9516	http://bit.ly/2MMYeEa
Nexcom AXE-5904 EtherCAT slave module ²	http://bit.ly/2lQJ4Ms
Panasonic SC-HG1-ETC EtherCAT communication	http://bit.ly/30sOphm

Device	Information
unit	
Ricoh AP-10A	http://industry.ricoh.com/industrial-pc/AP-10A/ (Japanese)
Ropex RES-5012 temperature controller	http://ropex.de/en/products/temperature-controllers/resistron/res-5012.html
Ropex UPT-6012 temperature controller	http://ropex.de/en/products/temperature-controllers/cirus/upt-6012.html
Sick Flexi Soft FX0- GETC EtherCAT Gateway	http://www.sick.com/tw/en/senscontrol-safe-control-solutions/safety-controllers/flexi-soft/c/g186176
Sigmathek S-DIAS Anschaltmodul EC121 EtherCAT Gateway Extended CAN Interface AI022 SDIAS Analog Input NC100 SDIAS Position Output ICA011 SDIAS CAN DI080 SDIAS Digital Input SCP011 SDIAS Safety Modules SI021 SDIAS SSI	http://www.sigmathek-automation.com/en/products/io-systems/s-dias/

Device	Information
Encoder RS422	
Tem-Tech Lab. ECG-485	http://www.tem-tech.co.jp/en/products/
Toshiba 4-axis SCARA robot controllers TS3000, TSL3000	http://www.shibaura-machine.co.jp/en/product/robot/lineup/th/ts3000.html (TS3000) http://www.shibaura-machine.co.jp/en/product/robot/lineup/th/tsl3000.html (TSL3000)
TPM 207-ADIO- KIT	http://www.tpm-pac.com/product/207-adio-kit/
TPM 207-D402H	http://www.tpm-pac.com/product-2/ethernetcat-2/digital-slave-e/digital-i-o-slave-e-di/
Trumpf Hüttinger RF generator TruPlasma RF 3006	http://www.trumpf.com/en_US/products/powerelectronics/plasma-excitation/truplasma-rf-series-1000-3000-g213/

¹This device works with KINGSTAR but has had limited testing and users should contact Advantech for information on how to set up the device and develop the custom cable.

²Tested with YASKAWA SDGV-R90A01B and Panasonic MADKT1505CA1. These two devices may not work properly when their homing modes are used.

*Yet to be tested.

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  > **RTX64 4.5 Runtime** > **RTX64 Control Panel**.
2. In the **RTX64 4.5 Control Panel**, record the **Version** shown in the **Installed Runtime components** area.

To obtain the KINGSTAR version number:

1. Click Start  > **KINGSTAR 4.5 Runtime** > **KINGSTAR Control Panel**. Or, in the notification area, double-click the KINGSTAR icon.
2. In KINGSTAR Control Panel, click **About**.
3. Record the **Version** shown on the page.

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.