

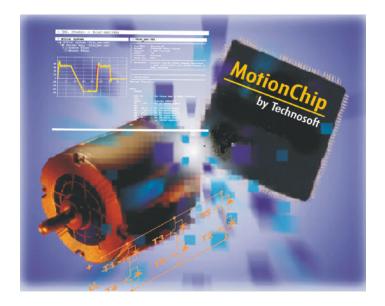
Product Overview
Intelligent Servo Drives
Intelligent Motors

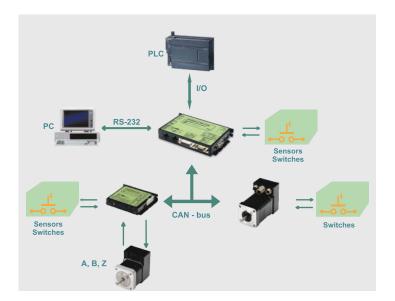
Your Next Intelligent Move





T E C H N O S O F T MOTION TECHNOLOGY







An Innovative Company

Technosoft is a leading DSP Motion Control technology company, specialized in the design and manufacture of motion control products and custom motion systems.

Technosoft's focus on innovative design, using the latest control technology has culminated in the realization of MotionChip $^{\text{TM}}$ - a dedicated solution for motion control, embedded today in a broad range of intelligent servo drive products.

Technosoft products use modularity both at hardware and software levels. This provides highly flexible and adaptable dedicated solutions that can easily be prototyped to meet specific OEM needs.

The automotive, medical, robotics, textile and factory automation industries have effectively used Technosoft's motor control expertise in the fast development of specific products for highly demanding applications.

Your Benefits

Compact and cost effective intelligent drives

- All in one : controller and drive in one unit
- One for all : same drive for DC, step, brushless or linear motors
- Distributed intelligence with :

CANopen CANopen EtherCAT EtherCAT

TMLCAN Ethernet

- Advanced digital motion control with MotionChip[™] DSP technology :
- -PVT, S-curves, electronic camming, 3D motion commands
- Easy implementation with various motion libraries for PC / PLC
- Graphical programming with EasyMotion Studio

Intelligent Drives and Motors

Technosoft Intelligent Servo Drives belong to a new family of fully digital servo drives with embedded intelligence, based on the latest DSP controller technology. These state-of-the-art intelligent drives offer features usually found only in high-power servo-amplifiers:

- Software configurability to drive AC or DC brushless, DC brush or step motors
- Multi-mode motion operation: contouring, profiling, gearing, electronic camming
- Stand-alone or multi-axis configuration
- •Typical feedback devices: tacho generators, digital or linear Halls, incremental, Sin/Cos, SSI, Biss, Endat encoders
- Distributed control over CAN, CANopen, EtherCAT, Ethernet



Medical

- Respiratory devices
 Surgical instruments & robots
 Clinical Diagnosis
 Dosing machines
 Liquid Handling System
 Ophthamology equipment
 X-Ray equipment
 Biomechatronics
 Centrifugal pumps
 Medical numps

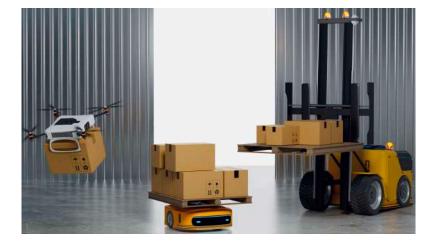
- Medical pumps



Robotics & Logistics

- Robots and cobots
- Exoskeletons
- Grippers
 Automated guided vehicles (AGVs)
 Warehouse automation







Laboratory Automation

- Analysis equipmentPipetting
- Automated diagnose station





Factory Automation

- · Pick and place robots
- Cartesian robots

- Welding robots
 Welding robots
 Printing equipment
 Laser cutting
 Laser marking
 Dispensing machine
 Soldering machine



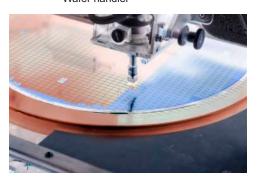
Packaging

- Bottling machinesLabeling machinesGluing machines
- Package printing



Semiconductor Equipment

- Flexible automation
- Atomic layer etching
- Trim and form
- Pick and place handlerWafer handler





Instrumentation and Optics

- Digital microscopes
 Laser measuring systems
 Aerial view cameras
- Photometry
- Lens shaping and polishing
- · Auto focus & auto zooming



	Family	iPOS2401		iPOS	iPOS4803			
	Drive	iPOS2401MX CAN/CAT Intelligent Servo Drive 25 W	iPOS3602 VX/MX Intelligent Servo Drive 75 W	iPOS3604 VX/MX Intelligent Servo Drive 144 W	iPOS3602 HX/BX Intelligent Servo Drive 75 W	iPOS3604 HX/BX Intelligent Servo Drive 144 W	iPOS4803P Microdrive Intelligent Servo Drive 150 W	iPOS4803S Microdrive Intelligent Servo Drive 150 W
ors	• DC	✓	~	✓	✓	✓	~	✓
d Mot	• Step (up to 256 µsteps)	√	✓	√	√	✓		
Controlled Motors	• Brushless (AC & DC)	√	✓	√	√	✓	✓	✓
Cor	• Linear	✓	✓	√	~	✓	✓	✓
al rs	Bus Voltage	12-24 V	12-36 V	12-36 V	12-36 V	12-36 V	7 - 48 V	7 - 48 V
Electrical Parameters	Output Current - Nominal	1 A	2 A	4 A	2 A	4 A	3 A (RMS)	3 A (RMS)
Par	Peak Current	1 A	3.2 A	10A	3.2 A	10A	14 A (RMS)	14 A (RMS)
Ē	RS-232 / USB	√ /-	√ /-	√ /-	√ /-	√ /-	√ /-	VIV
nicatio	CAN / CANopen	~	√	√	√	✓	~	~
Communication	EtherCAT	√	Optional	Optional			✓	✓
ပိ	TMLCAN	√	✓	~	√	✓	✓	√
ıtrol	Control Functions Position, Speed, Torque	√	~	√	√	√	√	✓
Motion Control	Electronic Gearing	✓	√	√	√	✓	√	✓
Motic	Electronic Camming	√	√	√	√	√	√	✓
puts	Analog Inputs	1	2 (VX) / 1 (MX)	2 (VX) / 1 (MX)	2	2	1	1
s / Outputs	Digital Inputs	5	5	5	5	5	3	3
Input	Digital Outputs	2	4 (VX) / 3 (MX)	4 (VX) / 3 (MX)	3	3	3	3
	Quadrature Incremental Encoder	√	√	√	√	✓	√	✓
	Digital Hall	✓	√	√	√	✓	✓	✓
"	Linear Hall	Optional	√	Optional	Optional	Optional	√	✓
Sensors	Sin / Cos Encoder		√	√	√	✓		
S	SSI/BISS Encoder						✓	✓
	Tamagawa						✓	√
	Resolver/En DAT						I V	14
	Size (mm)	47x19x8 50x20x15	56 x 29 x 7 (VX) 55 x 26 x 13 (MX)	56 x 29 x 7 (VX) 55 x 26 x 13 (MX)	73x45x16(HX) 80x55x16(BX)	73x45x16(HX) 80x55x16(BX)	38x25x8	38x40x22
Others	Weight (g)	7 /12	10 (VX) / 8 (MX)	10 (VX) / 8 (MX)	48(HX)/ 70(VX)	48(HX)/ 70(VX)	8	30
	Ambient Temp. Range (*)	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C

Family		iPOS4850	31x	iPOS48	iPOS4808					
		iPOS4850 Intelligent Servo Drive 2,5 kW	iPOS481X MZ/XZ Intelligent Servo Drive 1 kW	iPOS4810 MZ/XZ Intelligent Servo Drive 700 W	iPOS4808 BX CAN/CAT Intelligent Servo Drive 400 W	iPOS4808 MY CAN/CAT STO COMBO Intelligent Servo Drive 400 W	iPOS4808 MY Intelligent Servo Drive 400 W	iPOS4808 VX Intelligent Servo Drive 400 W		
င္ပ	DC	√	~	√	√	√ ·	✓	~		
ntrolle	• Step (up to 512 µsteps)		√	√	✓	✓	✓	~		
Controlled Motors	Brushless (AC & DC)	√	✓	✓	✓	~	√	✓		
ors	• Linear	√	√	✓	√	✓	√	✓		
Pa	Bus Voltage	11-60 V	11-50 V	11-50 V	12-50 V	12-50 V	12-48 V	12-48 V		
Electrical Parameters	Output Current - Nominal	50	15 A (RMS)	10 A (RMS)	8 A	8 A	8 A	8 A		
ers	Peak Current	90	28 A (RMS)	28 A (RMS)	20 A	20 A	20 A	20 A		
Ç	RS-232 / USB	√ /-	✓	VIV	√ /-	√ /-	√ /-	√ /-		
Communication	CAN / CANopen	~	✓	~	✓	~	✓	✓		
nicatio	EtherCAT	✓	√	✓	√	✓	✓	~		
) n	TMLCAN	✓	✓	✓	✓	✓	~	✓		
Moti	Control Functions Position, Speed, Torque	~	✓	✓	✓	✓	~	✓		
Motion Control	Electronic Gearing	~	✓	✓	✓	~	✓	✓		
ntrol	Electronic Camming	~	✓	✓	✓	✓	✓	✓		
Input	Analog Inputs	3	2	2	2	2	2	2		
Inputs / Out	Digital Inputs	2	6	6	6	6	6	8		
tputs	Digital Outputs	2	6	6	5	5	5	5		
	Quadrature Incremental Encoder	√	√	√	✓	✓	√	✓		
	Digital Hall	√	✓	✓	✓	✓	~	✓		
(0	Linear Hall	√	✓	√	✓	✓	√	✓		
Sensors	Sin / Cos Encoder		✓	✓	✓	✓	√	✓		
S S	SSI/BISS Encoder	√	√	✓	~	√	√	~		
	Tamagawa	~	✓	✓						
	Resolver/En DAT	- <i>k</i> ⁄								
	Size (mm)	139 X 93 X 24	93 X 43 X 32	64 X 43X 13	89 x 77 x 17 (CAN) 103 x 71 x 17 (CAT)	60 x 44 x 21 (CAN) 64 x 44 x 21 (CAT)	60 x44 x 12	56 x44 x7		
Others	Weight (g)		83		110 / 120	43 / 45	20	18		
	Ambient Temp. Range (*)	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C		

	Family	iPOS80x0	iPOS8015	iMOTIONCUBE	iGVD	Multi-axes iPOS4803 SY Multi-axes Motion system 4 x 150 W Multi-axes Motion system 4 x 144 W Multi-axes Motion system 6 x 144 W		
	Drive	iPOS80x0 BX CAN/CAT Intelligent Servo Drive 800 W / 1,6 kW	iPOS8015 BZ CAT Intelligent Servo Drive 1,7 kW	iMOTIONCUBE Intelligent Servo Drive 1,6 kW	iGVD CAN STO Intelligent Servo Drive 8 kW	Multi-axes Motion system	Multi-axes Motion system	Multi-axes Motion system
ırs	• DC	~	√	✓	✓	✓	~	✓
d Moto	• Step (up to 256 µsteps)	✓	~	✓			√	√
Controlled Motors	• Brushless (AC & DC)	√	~	✓	✓	✓	~	√
Cor	• Linear	~	~	✓	✓	✓	~	√
-Is	Bus Voltage	12-80 V	11-80 V	12-80 V	11-80 V	7-48 V	12 -36 V	12 -36 V
Electrical Parameters	Output Current - Nominal	10 / 20 A	15 A (RMS)	20 A	100 A	4 x 3 A	4 x 4 A	4 x 6 A
Par	Peak Current	20 / 40 A	28 A (RMS)	40 A	140 A	4 x 14 A	4 x 10 A	6 x 10 A
Ē	RS-232 / USB	√ /-	√ /-	√ /-	- <i>W</i>	- <i>K</i>	√ /-	√ /-
nicatio	CAN / CANopen	~		✓	✓	✓	√	✓
Communication	EtherCAT	√	~	✓	✓	√	Ethernet	~
ပိ	TMLCAN	~		✓	✓	✓	~	√
ıtrol	Control Functions Position, Speed, Torque	√	~	✓	✓	√	~	√
Motion Control	Electronic Gearing	√	✓	✓	✓	√	~	√
Motic	Electronic Camming	~	~	√	✓	√	~	√
puts	Analog Inputs	2	2	2	1	4 x 1	4 x 2	6 x 2
/ Outputs	Digital Inputs	4	4	4	5	4 x 6	4 x 5	6 x 5
Inputs	Digital Outputs	4	4	4	4	4 x 3	4 x 4	6 x 4
	Quadrature Incremental Encoder	√	~	✓	✓	~	~	~
	Digital Hall	✓	~	✓	✓	~	~	~
10	Linear Hall	✓		~		√	~	~
Sensors	Sin / Cos Encoder	~	~	✓			~	~
Ñ	SSI/BISS Encoder	√	~	✓	✓	✓		
	Tamagawa		√			✓		
	Resolver/En DAT	- <i>₩</i>	- <i>K</i>			- <i>K</i>		
	Size (mm)	139 x 94 x 25	139 x 94 x 25	60 x 40 x20	104 x 95 x 47	94 x 84 x 28	100 x 98 x 37	160 x 122 x 37
Others	Weight (g)	240	240	45	300		125	200
5	Ambient Temp. Range (*)	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C

iMOT17 Step			іМОТ	17 Brushl	ess	iMOT2	iMOT23 Step		Family	
	3	3						5		
nt	MOT 17xS TM- CAN Intelligent Step Motors 0.3 Nm	iMOT 17xS TM- CAT Intelligent Step Motors 0.3 Nm	iMOT 17xB XM- CAN Intelligent Brushless Motors 0.1-0.3.Nm	iMOT 17xB TM- CAN Intelligent Brushless Motors 0.1-0.3.Nm	iMOT 17xS TM- CAN Intelligent Brushless Motors 0.1-0.3.Nm	iMOT 23xS XM- CAN Intelligent Step Motors 1-1.8 Nm	iMOT 23xS TM- CAN Intelligent Step Motors 1-1.8 Nm	GP Gearheads up to 90 Nm		
									DC	င့
	~	✓				✓	✓		• Step (up to 512 µsteps)	ntrolle
			AC	AC	AC				• Brushless (AC & DC)	Controlled Motors
									• Linear	ors
,	12-48V	12-48V	12-48V	12-48V	12-48V	12-48V	12-48V		Bus Voltage	
1	0.3 Nm	0.3 Nm	0.1-0.3 Nm	0.1-0.3 Nm	0.1-0.3 Nm	1-1.5 Nm	1-1.5 Nm	Rated Torque up to 90 Nm	Output Current - Nominal	Electrical Parameters
1	0.5 Nm	0.5 Nm	0.3-0.9 Nm	0.3-0.9 Nm	0.3-0.9 Nm	1-1.8 Nm	1-1.8 Nm	Peak Torque up to 150 Nm	Peak Current	al ers
	~	~	~	✓	✓	~	✓		RS-232	O
	✓		✓	~		✓	~		CAN / CANopen	Communication
		~			✓				EtherCAT	nicati
	✓		~	✓		✓	✓		TMLCAN	on .
	√	~	✓	~	~	√	✓		Control Functions Position, Speed, Torque	Moti
	✓	~	✓	✓	~	✓	✓		Electronic Gearing	Motion Control
	✓	~	✓	√	~	✓	✓		Electronic Camming	ntrol
	1	1	1	1	1	1	1		Analog Inputs	Input
	4	4	4	4	4	5	4		Digital Inputs	Inputs / Out
	2	2	2	2	2	2	2		Digital Outputs	tputs
al	Internal	Internal	Internal	Internal	Internal	Internal	Internal		Quadrature Incremental Encoder	
									Digital Hall	
									Linear Hall	(0
									Sin / Cos Encoder	Sensors
									SSI Encoder	, vi
									BiSS Encoder	
									Resolver	
x57 5	51÷65x43x57	51÷65x43x57	58÷91x43x57	58÷98x43x57	58÷98x43x57	68÷92x58x73	68÷92x58x73	40 / 57 / 86 Diameter	Size (mm)	
00	285-600	285-600	325-700	325-700	325-700	700-1100	700-1100	Up to 4500	Weight (g)	Others
°C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	Ambient Temp. Range (*)	



iPOS Line

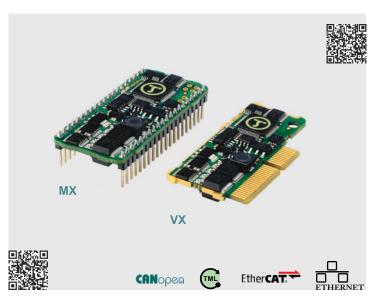
iPO2401 MX CAN/CAT Intelligent Servo Drives

24 V, 1 A 25 W

- · Suitable for rotary, linear brushless, DC brush and step motors
- 12-24 V power supply (motor and logic)
- 1 A continuous, 1 A peak current
- 5 Digital inputs, 3 digital outputs and 2analog inputs
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)
- EtherCAT extension with CoE protocol
- Size: 47 x 19 x 8 mm (CAN model) / 50 x 20 x 15 mm (CAT

Ordering information:

P024.300.E101 – iPOS2401 MX-CAN; 24 V, 0.9 A, pin-plug, encoder, CAN P024.200.E121 — iPOS2401 MX-CAT Combo, 24 V, 1 A, EtherCAT



iPOS3602 VX / iPOS3602 MX **Intelligent Servo Drives**

36 V, 2 A

- · Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V power supply (motor and logic)
- 2A continuous, 3.2A peak current
- Digital inputs (5), digital outputs (4 VX model / 3 MX model) and analog inputs (2 VX model / 1 MX model)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)
- Optional EtherCAT extension with CoE protocol
- Mounting: vertical (VX model), horizontal (MX model)
- Size: 56 x 29 x 7 mm (VX model) / 55 x 26 x 13 mm (MX model)

Ordering information: P028.001.E001 iPOS3602 VX-CAN Servo Drive, 36 V, 2A, CAN P028.001.E101 iPOS3602 MX-CAN Servo Drive, 36 V, 2A, CAN



iPOS3604 VX / iPOS3604 MX **Intelligent Servo Drives**

36 V, 4 A

- · Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V power supply (motor and logic)
- 4 A continuous, 10 A peak current
- Digital inputs (5), digital outputs (4 VX model / 3 MX model) and analog inputs (2 VX model / 1 MX model)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)
- Optional EtherCAT extension with CoE protocol
- · Mounting: vertical (VX model), horizontal (MX model)
- Size: 56 x 29 x 7 mm (VX model) / 55 x 26 x 13 mm (MX model)

Ordering information:
P028.002.E001 iPOS3604 VX-CAN Servo Drive, 36 V, 4A, CAN
P028.002.E101 iPOS3604 MX-CAN Servo Drive, 36 V, 4A, CAN



iPOS3602 BX / HX Intelligent Servo Drives

36 V, 2 A 75 W

- Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V single power supply
- Continuous current: 2A
- Peak current: 3.2 A
- Digital inputs (5) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)
- Size: 80 x 55 x 16 mm (BX model) / 73x45x16 mm (HX model)

Ordering information:

P028.001.E201 iPOS3602 BX-CAN Servo Drive, 36 V, 2A, CAN P028.001.E501 iPOS3602 HX-CAN Servo Drive, 36 V, 2A, CAN



iPOS3604 BX / HX Intelligent Servo Drives

36 V, 4 A 144 W

- Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V single power supply
- · Continuous current: 2A
- Peak current: 3.2 A
- Digital inputs (5) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)
- Size: 80 x 55 x 16 mm (BX model) / 73x45x16 mm (HX model)

Ordering information:

iPOS4803

P028.002.E201 iPOS3604 BX-CAN Servo Drive, 36 V, 4A, CAN P028.002.E501 iPOS3604 HX-CAN Servo Drive, 36 V, 4A, CAN



Intelligent Servo Drives

50 V, 3 A RMS 150 W

- Suitable for DC brushed, brushless or linear motors
- 9-48 V single power supply
- •Continuous current: 3A (RMS), peak current: 14A peak (RMS)
- Digital inputs (up to 6) / outputs (up to 3) and 1 analog input
- Incremental encoder, Digital Hall sensor, Linear Halls
- Dual loop feedback and absolute encoder support: SSI, BiSS, EnDAT 2.2, Tamagawa, Panasonic, Nikon, Sanyo Denki
- RS-232, USB, Can(TMLCAN and CaNopen protocols, EtherCAT
- Size: 38.1 x 25 x 8.4 mm (P model) / 38.6 x 40.6 x 22.8 mm (S model)

Ordering information:

P020.001.E122 iPOS4803P - Pins version, 3A nominal, EtherCAT® P020.801.E222 iPOS4803S - Standalone version, 3A nominal, EtherCAT®



iPOS4808 VX / iPOS4808 MY **Intelligent Servo Drives**

48 V, 8 A 400 W

- · Suitable for DC brushed, brushless, step or linear motors
- 12-48 V motor power supply, 12-36 V logic supply
- •8A continuous, 20A peak current
- Digital inputs (8) / outputs (6 VX model / 6 MY model) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- · Optional feedback extension for: SSI and BiSS encoders
- Optional dual and EnDAT 2.2 for MY
- RS-232 and CAN (TMLCAN and CANopen protocols)
- Optional EtherCAT extension with CoE protocol
- Mounting: vertical (VX model), horizontal (MY model)
- Size: 56 x 44 x 7 mm (VX model) / 60 x 44 x 12 (MY model)

Ordering information:

P027.014.E001 iPOS4808 VX-CAN Servo Drive, 48 V, 8 A, CAN P027.414.E101 iPOS4808 MY-CAN Servo Drive, 50 V, 8 A, CAN



iPOS4808 MY CAN / CAT - STO COMBO **Intelligent Servo Drive**

48 V, 8 A 400 W

- Suitable for DC brushed, brushless, step or linear motors
- 12-48 V motor power supply, 12-36 V logic supply
- 8 A continuous, 20 A peak current
- Digital inputs (6) / outputs (5) and analog inputs (2)
- High resolution stepper (512 µsteps) or step-less control
- Quadrature and Sin/Cos encoders, digital and linear Halls
- · Dual Feedback and absolute ecnoders support (SSI, BiSS and EnDAT 2.2)
- STO (Safe Torque Inputs) capability
- RS-232, TMLCAN and CANopen, CoE protocol for the EtherCAT version
- Size: 60/64 (CAN/CAT Combo) x 44 x 21 mm

Ordering information:
P027.314.E111 iPOS4808 MY-CAN-STO Combo, 48 V, 8 A, CAN, STO
P027.314.E121 iPOS4808 MY-CAT-STO Combo, 48 V, 8 A, EtherCAT, STO



iPOS4808 BX CAN / CAT **Intelligent Servo Drive**

48 V, 8 A 400 W

- Suitable for DC brushed, brushless, step or linear motors
- 12-48 V motor power supply, 12-36 V logic supply
- 8 A continuous, 20 A peak current
- Digital inputs (6) / outputs (5) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- · Dual Feedback and absolute encoder support (SSI, BiSS and EnDAT 2.2)
- STO (Safe Torque Inputs) capability
- RS-232, CAN (TMLCAN and CANopen protocols) and EtherCAT extension with CoE protocol
- Size: 89 x 77 x 17 mm (CAN) / 103 x 71 x 17 mm (CAT)

Ordering information:

P027.014.E201 iPOS4808 BX-CAN Servo Drive, 48 V, 8 A, CAN P027.014.E221 iPOS4808 BX-CAT Servo Drive, 48 V, 8 A, EtherCAT







iPOS4810 MZ/XZ **Intelligent Servo Drive**

48 V, 10 A RMS

- · Suitable for DC brushed, brushless, step or linear motors
- Motor supply: 11-50V; Logic SELV/ PELV supply: 9-36V
- Continuous current: 10A (RMS), peak current: 28A peak (RMS)
- STO: 2 safe torque-off inputs, safety integrity level (SIL3/Cat3/PLe)
- Digital inputs (6) / outputs (6) and analog inputs (2)
- · Incremental and Sin / Cos encoders, Digital Hall sensor and
- · Dual loop feedback and absolute encoder support: SSI, BiSS, EnDAT 2.2, Tamagawa, Panasonic, Nikon, Sanyo Denki RS-232, USB
- TMLCAN and CANopen protocols for CAN executions
- EtherCAT with CoE for CAT executions
- Size: 64 x 43.6 x 13.7 mm(MZ-CAN & MZ-CAT model) / 93 x 43.8 x 32.5 mm(XZ-CAT: model) 93 x 43.8 x 30.5 mm(XZ-

Ordering information:
P022.015.E122 iPOS4810 MZ-CAT, 48V, 10A, EtherCAT, plug-in
P022.015.E102 iPOS4810 MZ-CAN, 48V, 10A, CAN, plug-in
P022.815.E122 iPOS4810 XZ-CAT, 48V, 10A, CAN, standalone
P022.815.E102 iPOS4810 XZ-CAN, 48V, 10A, CAN, standalone

iPOS4815 MZ/XZ **Intelligent Servo Drive**

48 V, 15A RMS

- · Suitable for DC brushed, brushless, step or linear motors
- Motor supply: 11-50V; Logic SELV/ PELV supply: 9-36V
- Continuous current: 15A RMS, peak current: 28 A PEAK
- · STO: 2 safe torque-off inputs, safety integrity level (SIL3/Cat3/PLe)
- •Digital inputs (6) / outputs (6) and analog inputs (2)
- Incremental and Sin / Cos encoders, Digital and linear Hall
- •Dual loop feedback and absolute encoder support: SSI, BiSS, EnDAT 2.2, Tamagawa, Panasonic, Nikon, Sanyo Denki
- RS-232, USB
- TMLCAN and CANopen protocols for CAN executions
- EtherCAT with CoE for CAT executions
- Size: 64 x 43.6 x 13.7 mm(MZ-CAN & MZ-CAT) / 93 x 43.8 x

Ordering information:

D028.016.E122 iPOS4815 MZ-CAT, 48V, 15A, EtherCAT, plug-in P022.016.E102 iPOS4815 MZ-CAN, 48V, 15A, CAN, plug-in P022.816.E102 iPOS4815 XZ-CAT, 48V, 15A, EtherCAT, standalone P022.816.E102 iPOS4815 XZ-CAT, 48V, 15A, CAN, standalone

iPOS4850 BX CAN/CAT Intelligent Servo Drive

48 V, 50A 2,5 kW

- · Suitable for DC brushed, brushless, 3-phase step or linear
- · Motor supply: 11-60V; Logic supply: 9-36V
- · Continuous current: 50A, peak current: 90A peak
- Digital inputs (2) / outputs (2), analogue inputs (3)
- STO: 2 safe torque-off inputs, safety integrity level (SIL3/Cat3/PLe) for STO execution
- Incremental encoder (differential), Digital Hall sensor;
- Dual loop feedback and absolute encoder support: SSI, BiSS, EnDAT 2.2, Tamagawa, Panasonic, Nikon, Sanyo Denki
- RS-232 serial, TMLCAN and CANopen protocols and EtherCAT extension
- Size: 139 x 93.9 x 24.6 mm

Ordering information:

P029.200.E201 iPOS4850 BX-CAN, 48V 50A, cl.frame, Enc, CAN P029.300.E201 iPOS4850 BX-CAN-STO, 48V 50A, cl.frame, Enc, CAN,STO P029.300.E321 iPOS4850 BX-CAT-STO, 48V, 50A, cl. frame, enc., CAT



iPOS8010/20 BX CAN / CAT Intelligent Servo Drive

80 V, 10 A - 20 A 800 W - 1,6 kW

- Suitable for DC brushed, brushless, step or linear motors
- 12-80 V motor power supply, 12-36 V logic supply
- 10 A/20A continuous, 20 A /40A peak current
- Digital inputs (4) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 256 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- Dual Feedback and absolute encoder support (SSI, BiSS and EnDAT 2.2)
- 2 Safe Torque Off (STO) inputs
- RS-232, CAN (TMLCAN and CANopen protocoles) and EtherCAT extension with CoE protocol
- Size: 139 x 94 x 16 mm

Ordering information:

P029.025.E201 iPOS8010 BX-CAN Servo Drive, 80 V, 10 A, CAN P029.025.E221 iPOS8010 BX-CAT Servo Drive, 80 V, 10 A, EtherCAT P029.026.E201 iPOS8020 BX-CAN Servo Drive, 80 V, 20 A, CAN P029.026.E221 iPOS8020 BX-CAT Servo Drive, 80 V, 20 A, EtherCAT



iPOS8015 BZ CAT Intelligent Servo Drive

80 V, 15 A 1,7kW

- Suitable for DC brushed, brushless, step or linear motors
- Motor supply: 11-80V; Logic SELV/ PELV supply: 9-36V;
- Continuous current: 15A (RMS), peak current: 28A (RMS)
- Digital inputs (4) / outputs (4), analogue inputs (2), 1 Motor brake digital output
- STO: 2 safe torque-off inputs, safety integrity level (SIL3/Cat3/PLe)
- Incremental and Sin / Cos encoders, Digital Hall sensors
- Dual loop feedback and absolute encoders support: SSI, BiSS, EnDAT 2.2, Tamagawa, Panasonic, Nikon, Sanyo Denki;
- RS-232, EtherCAT with CoE
- Size: 139 x 94.2 x 24.5 mm

Ordering information:

P029.025.E201 iPOS8010 BX-CAN Servo Drive, 80 V, 10 A, CAN P029.025.E221 iPOS8010 BX-CAT Servo Drive, 80 V, 10 A, EtherCAT P029.026.E201 iPOS8020 BX-CAN Servo Drive, 80 V, 20 A, CAN P029.026.E221 iPOS8020 BX-CAT Servo Drive, 80 V, 20 A, EtherCAT

CANOPEA EtherCAT.

iMOTIONCUBE Intelligent Servo Drive

80 V, 20 A 1,6 kW

- Suitable for DC brushed, brushless, step or linear motors
- 12-80 V motor power supply, 12-36 V logic supply
- 20 A continuous, 40 A peak current
- Digital inputs (4) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- Dual Feedback and absolute encoder support (SSI and BiSS)
- 2 Safe Torque Off (STO) inputs
- RS-232 and CAN (TMLCAN and CANopen protocols) and EtherCAT extension with CoE protocol
- Size: 60 x 40 x 20 mm

Ordering information:

P025.126.E101 iMOTIONCUBE Intelligent Drive 80V 20A CAN P025.126.E121 – iMOTIONCUBE CAT-STO - Pin plug version, EtherCAT, STO inputs



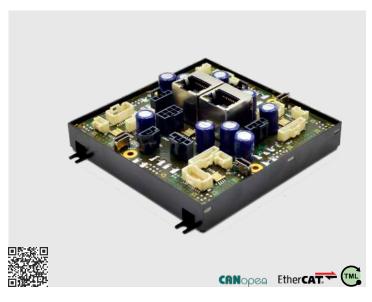
iGVD CAN STO Intelligent Servo Drive

80V, 100A 8kW

- Suitable for DC brushed, brushless, 3-phase step or linear motors
- Motor supply: 11-80V; Logic SELV/ PELV supply: 9-36V
- · Continuous current: 100A, peak current: 140A peak
- Digital inputs (5) / outputs (4), 1 analog input, 1 Motor brake digital output
- STO: 2 safe torque-off inputs, safety integrity level (SIL3/Cat3/PLe)
- Incremental encoder (differential), Digital Hall sensor
- Dual loop feedback and absolute encoders support: SSI, BiSS, EnDAT
- USB, TMLCAN ,CANopen (CiA 301, CiA 305 and CiA 402) and EtherCAT
- Size: 104.2 x 95 x 47.1 mm

Ordering information:

P025.027.E201 iGVD71 Intelligent drive 48V, 70A, CAN



iPOS4803 SY Multi-axis Motion System

7 - 48 V 4 x 150 W

- Up to 4 axis motion system based on iPOS4803 S
- For brushless, rotary and linear motors, voice coils and DC brushed motors
- 7-48V motor supply, 6-48V logic supply
- Each axis supports 3A (RMS) continuous, 14A (RMS) peak current
- 4 x Digital inputs (up to 6) / outputs (up to 3) and 1 analog input
- Incremental encoder, Digital Hall sensor, Linear Halls
- Dual loop feedback and absolute encoder support: SSI, BiSS, EnDAT 2.2, Tamagawa, Panasonic, Nikon, Sanyo Denki
- RS-232, USB, Can(TMLCAN and CaNopen protocols, EtherCAT
- Size: 94x184x28mm

Ordering information:

 $P020.200.E403-iPOS4803-SY3\,Multi\,Axis\,System,\,3\,x\,iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803-SY4\,Multi\,Axis\,System,\,4\,x\,iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.200.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS4803S,\,EtherCAT\,P020.E404-iPOS48$



iPOS360x SX/SY Multi-axis Motion System

12-36 V 4/6 x144 W

- Suitable for DC brushed, brushless, step or linear motors
- Can be supplied from1 to 6 axis of any combination of iPOS3602 and iPOS3604
- iPSO360x SX systems with up to 4 axis for RS232, TMLCAN, CANopen or Ethernet
- iPSO360x SY systems with up to 6 axis for RS232, TMLCAN, CANopen or EtherCAT
- 12-36 V power supply (motor and logic separately)
- 2A continuous / 3.3A peak, respectively 4A continuous / 10A peak per axis
- Size: 100 x 98 x 36 mm (4x) / 160 x 122 x 36 mm (6x)

Ordering information:

028.002.E884 iPOS360x MBX-CAN motherboard, 4 axes iPOS VX-CAN P038.022.E001 ENET-VX Ethernet plug-in interface P028.023.E000 iPOS360x MBX6-CAT motherboard for 6 axes iPOS VX-CAT, G3 P038.021.E001 ECAT-VX EtherCAT plug-in interface P028.024.E006 iPOS360x MBX6-CAN motherboard for 6 axes iPOS VX-CAN, G3



iMOT Line

iMOT17xS Intelligent Step Motors

12-48 V 0.3 Nm

12-48 V

0.1-0.3 Nm

- Fully programmable intelligent step motors due to TML instruction set
- 12-48 V motor power supply, 12-36 V logic supply
- 3 motor sizes offering from 0.2 to 0.4 Nm
- Minimal power consumption due to true servo closed loop operation
- Integrated position sensor with 4096 counts/rotation
- Programmable digital I/Os and analogue inputs
- RS-232, CANopen, EtherCAT and Ethernet optional

Ordering information:

P036.1x1.E120 iMOT17xS XM-CAN Intelligent Step Motor P036.1x1.E320 iMOT17xS TM-CAN Intelligent Step Motor P036.1x1.E323 iMOT17xS TM-CAT Intelligent Step Motor



iMOT17xB Intelligent Brushless Servo Motors

- Fully programmable intelligent brushless motors due to TML instruction set
- 12-36 V motor power supply, 12-36 V logic supply
- 3 motor sizes offering from 0.1 to 0.3 Nm @ 3'000 rpm
- Torque up to 18 Nm when provided with the GP gearheads
- Integrated position sensor with 4096 counts/rotation
- Programmable digital I/Os and analogue inputs
- · RS-232, CANopen, EtherCAT, TMLCAN, and Ethernet optional

Ordering information:

P042.1x1.E120 iMOT17xB XM-CAN Intelligent Brushless Motor P042.1x1.E320 iMOT17xB TM-CAN Intelligent Brushless Motor P042.1x1.E322 iMOT17xB TM-CAT Intelligent Brushless Motor



iMOT23xS Intelligent Step Motors

12-48 V 1-1.8 Nm

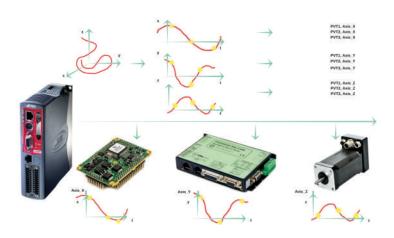
- Fully programmable intelligent step motors due to TML instruction set
- 12-48 V motor power supply, 12-36 V logic supply
- 3 motor sizes offering from 1 to 1.8 Nm
- Minimal power consumption due to true servo closed loop operation
- Integrated position sensor with 4096 counts/rotation
- Programmable digital I/Os and analogue inputs
- RS-232 and CAN (optional EtherCAT and Ethernet communication busses)

Ordering information:

P036.222.E120 iMOT232S XM-CAN Intelligent Step Motor, CAN P036.223.E120 iMOT233S XM-CAN Intelligent Step Motor, CAN



POSITION CONTROL. TORQUE CONTROL MOTION TRAJECTIONY GENERATOR (CANDUS) POSITION CONTROL. TORQUE CONTROL. APPLICATION APPLICATION



GP High Efficiency Gearheads

- Torque output 5 to 90 Nm
- All steel construction with ratios 5 to 500:1
- Assembled to the iMOT Line of brushless and step motors
- Three families 40 mm, 57 mm and 86 mm diameter
- Intermittent torque from 7.5 to 150 Nm
- Efficiency up to 92%
- Average backlash <30 arc minutes
- Exact ratios simplify calibration in position control applications
- Non standard ratios from 3 to 1000:1

Ordering information:

P042.621.E100 GP40M100:1-A-1 Gearbox, Size 17, Ratio 100:1 (example, see documentation for complete program)

Technosoft Motion Language Examples

Through high level software programmability, Technosoft drives and motors offer extended flexibility and versatility resulting in easy-to-use solutions for a variety of motion control applications.

Single-Axis Servo, Stand Alone or Host Controlled

The drives can run a locally stored TML program, in stand-alone mode or they can be programmed and controlled from a host controller system, via a communication channel: RS-232, RS-485, EtherCAT or CAN-bus (with CAN / CANopen drive versions). 'Immediate' on-line commands and TML instructions (loading and running of programs, setup of parameters, queries on drive status) can be sent and executed.

Events and Interrupts Handling

Programmable events on Technosoft drives, combined with the TML specific interrupts structure, allow you to simultaneously handle different tasks as: protections, time intervals, I/O status or capture, control error or status variable values, besides the main program's TML motion sequences.

Multiple-Axis Coordination

In distributed multiple-axes structures, a host can provide data points to axes in the network (EtherCAT, CAN, CANopen or RS485). Also, locally stored motion profiles can be executed at the host's command, or coordinated via on-board I/Os. Moreover, any axis can request and receive information from other axes in the system, via specific TML commands.

Multi-dimensional Paths (linear interpolation & vector mode)

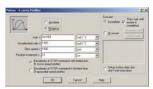
All Technosoft drives, together with the multi-axis controller TMC-3D, can execute 2D, 2^{1/2}D or 3D coordinated moves. The trajectories are defined through a series of linear or circular segments. Optionally, for each segment a vector speed and acceleration can be specified. TMC-3D splits each segment into PVT points and sends these points to the slaves. On receiving the PVT points, the slaves rebuild their paths using 3rd order interpolation.

Multiple I/O Treatment / Multiple-Axis I/O Handshake

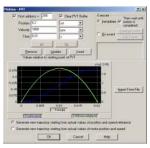
PLC-specific functionalities of Technosoft drives allow you to configure and use the I/O resources of the drive. Also the I/Os available on the drives allow you to create handshake structures between the axes, by appropriate TML programming. Activation of specific axes, completion of programmed tasks on axes, chaining of actions from one axis to another can easily be implemented, further increasing the flexibility of the motion system configuration.



Trapezoidal Speed Profiles



S-curve Profiles



PVT Mode



Electronic Camming - Master



Electronic Camming - Slave



External Mode



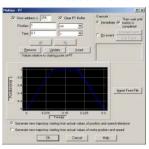
Test Mode



Trapezoidal Position Profiles



Additive Position Profile



PT Mode



Electronic Gearing - Master



Electronic Gearing - Slave



Homing Mode

Technosoft Motion Modes

Technosoft drives and motors allow you to program their built-in motion controller in order to set different motion modes and trajectories — internal and external — depending on the way the motion reference is generated.

Trapezoidal Speed Profiles

Program a speed profile with a trapezoidal shape of the speed, due to a limited acceleration.

Trapezoidal Position Profiles

Program a position profile due to a limited acceleration. You must specify the position you want to reach, the acceleration / deceleration rate and the travel speed. The built-in reference generator computes the position trajectory, which results in a trapezoidal or triangular speed profile.

On-the-fly Change of Motion Parameters

Almost any motor mode can be switched to another mode on the fly. This feature is especially useful for position/speed control applications, where the target reference is provided by the internal trajectory generator using position / speed profile modes, position / speed contouring modes, electronic gearing, electronic cam and stop modes.

S-curve Profiles

Program a position profile with an S-curve shape of the speed. This shape is due to the jerk limitation, which leads to a trapezoidal or triangular profile of the acceleration, and to an S-curve speed profile.

PT Mode

Programs a positioning path described through a series of points where each point specifies the desired Position and Time (the PT data). Between points, the built-in reference generator performs a linear interpolation.

PVT Mode

Programs a positioning path described through a series of points. Each point specifies the desired Position, Velocity and Time (the PVT data). Between points, the built-in reference generator performs a 3rd order interpolation.

Electronic Gearing

Sets the drive as a master or a slave for electronic gearing mode. When set as a master, the drive sends its position via a multi-axis communication channel, like the CANbus. The master sends either the load position or the position reference once, at each slow loop sampling time interval. When set as a slave, the drive follows the master's position with a programmable ratio. The slave can also superpose the electronic gearing movement with another mode.

Electronic Camming

Similarly to the electronic gearing mode, the drives can be programmed to implement electronic camming. When set as master, the drive sends its position via a multi-axis communication channel. The master sends either the load position or the position reference once at each slow loop sampling time interval. When set as slave, a drive executes a cam profile function of the master position.

External Mode

Programs the drives to work with an external reference provided by another device. There are 3 types of external references: analogue, digital and online.

Additive Position Profile

On-the-fly end-point modification during drive's execution of the motion profile. While a motor is executes a position profile, a new target position can be specified by adding a new position increment to the 'old' target position.

Fast Position Capture

Lets you store motor/load positions based on the transition of a digital input, allowing close correlation of axis positions to external events.

Homing

Is a sequence of motions, usually executed after power-on, through which the load is positioned into a well-defined point.

Test Mode

Sets the drives in a special test configuration setup. This configuration is supposed to be used during drive setup.







EasyMotion Studio

EasyMotion Studio gives you access to the performance of the Technosoft Motion Language (TML). The TML is a high-level set of instructions that can be used to configure and parameterize the MotionChip-based drives, and to execute advanced motion operations. EasyMotion Studio platform simplifies the setup and motion programming, as well as the development and graphical evaluation of your motion sequences.

With the EasyMotion Studio, you can:

- Define the system architecture
- Identify the parameters of the motor, sensor or load
- Tune and adjust digital control loops
- Define motion sequences, import G-code files (for TMC-3D)
- Build the application in TML for single or multi-axis
- Analyze and evaluate the dynamic behavior of your motion system through real time data acquisition

Motion Libraries for PCs and PLCs

Motion Libraries are collections of functions allowing you to implement motion control applications on a PC computer or PLC, in order to run Technosoft intelligent rives based on the MotionChip $^{\mathsf{TM}}$ technology. They enable you to communicate with a drive, set up its parameters, interrogate about its status, send motion commands, define motion events, test input and set output port statuses.

- PC Motion Libraries running under Windows: C/C++, C#, Visual Basic, Delphi Pascal and LabVIEW
- PC Motion Libraries running under Linux: C/C++
- PLC Motion Libraries for Siemens, OMRON and B&R: TML_LIB_S7, TML_LIB_ CJ1 and TML_LIB_x20

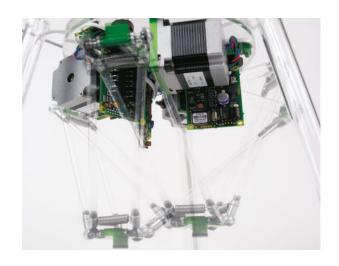
Starter Kits

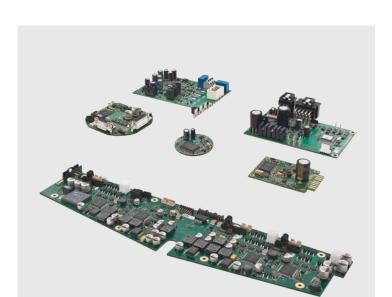
For a fast and easy way of learning how to use our intelligent servo drives, Technosoft offers starter kits for each product.

These evaluation kits are ready-to-run packages that include the complete hardware and software you need in order to evaluate and develop your motion applications.

Starter kits include:

- The EasyMotion Studio software
- The intelligent drive of your choice
- · A motor (brushless or stepper)
- · An I/O board
- · A collection of application notes







Industrial Applications

Technosoft's emphasis on modularity at both hardware and software levels allows us to create highly flexible and adaptable dedicated solutions that can easily and rapidly be prototyped to meet your specific needs. Customers from various industries requiring a wide range of motion control products and systems for specialized applications have effectively utilized Technosoft's expertise for:

- · Packaging: intelligent solutions for distributed control
- Medical: laboratory automation, life support devices
- Textile: yarn feeder, high dynamic controls
- · Automotive: sensorless vector control in fuel cell applications
- Machine tools: electronic screw drivers and nut runners
- · Semiconductor industry: wafer handling and processing

Custom Solutions

We combine advanced theoretical and modelling know-how in the field of electrical machines and digital motion control implementation on the latest Digital Signal Processor (DSP) technology. Our multidisciplinary engineering team includes experts in the various fields of motion control and mechatronics, such as:

- Intelligent and distributed motion control
- Digital control electronics
- · Specific motor control algorithms
- Sensorless vector control
- Digital, analog and power electronic design

Technosoft on-demand solutions are particularly suited for:

- Specific custom integration
- Digital motor control software modules
- Intelligent modular motor controllers

Quality

Our experience

Since over 25 years Technosoft has delivered motion solutions in various fields of the industry. This experience has matured into the continuous improvement of the performance and robustness of our products.

Our commitment

Satisfy our customer's expectations by mastering all the technological aspects related to digital motion control solutions.

Your satisfaction

Technosoft is certified according to the ISO 9001:2015 standard. This rigorous management system and continuous improvement of the processes reinforce every day our competitiveness and the satisfaction of our customers.

Documentation and Software

Installation Hardware Reference

Setup and Configuration



Motion Programming

EasySetUp









EasyMotion Studio





Application Notes
with EasyMotion Studio



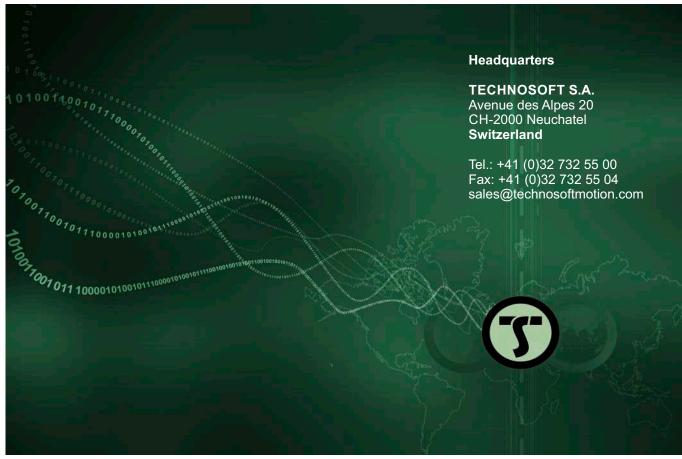
FAQ



<u>Tutorials</u> <u>with EasyMotion Studio</u>



For questions email to : support@technosoftmotion.com



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