Product Overview Intelligent Servo Drives Intelligent Motors 0

Your Next Intelligent **Move**











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[™] - 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 :





- 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 pumps

- 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

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



Packaging

- Bottling machines
 Labeling machines
 Gluing machines
 Package printing



Semiconductor Equipment

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





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





	Family	iPOS2401		iPOS36	Micro4803			
		States of	THE REAL					١
	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	Micro4803 MZ Intelligent Servo Drive 150 W	Micro4803 CZ Intelligent Servo Drive 150 W
ors	DC	~	✓	~	✓	✓	~	✓
ed Mot	• Step (up to 512 µsteps)	~	~	~	✓	✓		
ntrolle	• Brushless (AC & DC)	~	~	~	✓	✓	~	✓
ပိ	• Linear	~	✓	~	✓	✓	~	✓
al ers	Bus Voltage	7-40 V	9-36 V	9-36 V	9-36 V	9-36 V	6-48 V	6-48 V
lectric ramete	Output Current - Nominal	1 A	2 A	4 A	2 A	4 A	3 A (RMS)	4 A (RMS)
Pa E	Peak Current	1 A	3.2 A	10 A	3.2 A	10 A	10 A (RMS)	10 A (RMS)
u	RS-232 / USB	√/-	√/-	√/-	√/-	√/-	√ /√	√ <i>\</i> √ √
nicatio	CAN / CANopen	~	~	~	✓	~	~	~
nmmo	EtherCAT	~	Optional	Optional			~	✓
Ŭ	TMLCAN	~	~	~	✓	✓	~	~
ntrol	Control Functions Position, Speed, Torque	~	~	~	✓	✓	~	✓
on Co	Electronic Gearing	~	~	~	✓	✓	~	~
Moti	Electronic Camming	~	~	~	✓	✓	~	~
tputs	Analog Inputs	1	2 (VX) / 1 (MX)	2 (VX) / 1 (MX)	1	1	1	1
s / Ou	Digital Inputs	5	5	5	5	5	3/6	3 / 6
Input	Digital Outputs	2	4 (VX) / 3 (MX)	4 (VX) / 3 (MX)	3	3	3/0	3 / 0
	Quadrature Incremental Encoder	*	✓	~	✓	✓	~	✓
	Digital Hall	~	~	~	✓	✓	~	✓
Ś	Analog Hall	Optional	~	Optional	Optional	Optional	~	✓
ensor	Sin / Cos Encoder		~	~	✓	✓		
S	SSI/BISS Encoder						~	✓
	Tamagawa						~	~
	Resolver/En DAT						-/~	- /~
	Size (mm)	47 x 19 x 8 50 x 20 x 15	56 x 29 x 7(VX) 55 x 26 x 13 (MX)	56 x 29 x 7(VX) 55 x 26 x 13 (MX)	73 x 45 x 16 (HX) 80 x 55 x 16 (BX)	73 x 45 x 16 (HX) 80 x 55 x 16 (BX)	38 x 25 x 9	38 x 40 x 22
Others	Weight (g)	7 /12	10 (VX) / 8 (MX)	10 (VX) / 8 (MX)	48 (HX) / 70 (BX)	48 (HX) / 70 (BX)	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

	iPOS4	808		iPOS481	x	iPOS4850	Family	y
iPOS4808 VX Intelligent Servo Drive 400 W	iPOS4808 MY Intelligent Servo Drive 400 W	iPOS4808 MY CAN/CAT STO COMBO Intelligent Servo Drive 400 W	iPOS4808 BX CAN/CAT Intelligent Servo Drive 400 W	iPOS481x MZ Intelligent Servo Drive 700 W	iPOS481x XZ Intelligent Servo Drive 1 kW	iPOS4850 BX CAN/CAT Intelligent Servo Drive 2,5 kW		
~	*	~	~	~	~	~	DC	Co
~	*	~	~	~	~		 Step (up to 512 μsteps) 	ntrolle
~	*	~	~	~	~	*	• Brushless (AC & DC)	¢d Mot
~	*	~	~	~	~	*	• Linear	ors
11-50 V	11-50 V	11-50 V	11-50 V	11-50 V	11-50 V	11-60 V	Bus Voltage	Рап
8 A	8 A	8 A	8 A	10/15 A (RMS)	10/15 A (RMS)	45 A (RMS)	Output Current - Nominal	lectric
20 A	20 A	20 A	20 A	28 A (RMS)	28 A (RMS)	64 A (RMS)	Peak Current	ers
√/-	√ /-	√/-	√ /-	√ <i>1</i> √	√ <i>I</i> √	√/-	RS-232 / USB	0
*	~	~	*	~	✓	*	CAN / CANopen	ommu
Optional		~	~	~	✓	~	EtherCAT	nicatio
~	*	✓	~	*	×	~	TMLCAN	n
~	✓	✓	~	~	~	~	Control Functions Position, Speed, Torque	Moti
~	*	~	~	~	~	~	Electronic Gearing	on Co
~	✓	✓	✓	~	~	*	Electronic Camming	ntrol
2	2	2	2	2	2	3	Analog Inputs	Input
8	6	6	6	6	6	2	Digital Inputs	s / Ou
5	5	5	5	6	6	2	Digital Outputs	tputs
~	~	✓	✓	~	~	✓	Quadrature Incremental Encoder	
~	~	~	~	~	~	~	Digital Hall	
✓	✓	~	✓	~	~		Analog Hall	S
~	~	~	~	~	~		Sin / Cos Encoder	ensor
~	~	~	~	~	~	~	SSI/BISS Encoder	S
				~	✓	~	Tamagawa	
	- 1⁄	- 14	- 14	- 1⁄	- 1⁄	- 1⁄	Resolver/En DAT	
56 x 44 x 7	60 x 44 x 12	60 x 44 x 21 (CAN) 64 x 44 x 21 (CAT)	89 x 77 x 17 (CAN) 103 x 71 x 17 (CAT)	64 X 43 X 13	93 X 43 X 30	139 X 93 X 24	Size (mm)	
18	20	43 / 45	110 / 120	20	92	240	Weight (g)	Others
0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	Ambient Temp. Range (*)	

Family iPOS80x0		iPOS8015	iMOTIONCUBE	iGVD	Multi-axes			
	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/CAT STO Intelligent Servo Drive 8 kW	Micro4803 SY Multi-axes Motion system 4 x 150 W	iPOS360x SX Multi-axes Motion system 4 x 144 W	iPOS360x SY Multi-axes Motion system 6 x 144 W
ors	• DC	~	✓	~	~	~	*	~
d Mote	• Step (up to 512 µsteps)	*	✓	~			*	~
ntrolle	• Brushless (AC & DC)	~	*	~	~	✓	*	~
Co	• Linear	~	~	~	~	✓	*	~
al	Bus Voltage	11-80 V	11-80 V	11-80 V	11-80 V	6-48 V	12-36 V	12-36 V
ectrica	Output Current - Nominal	10 / 20 A	15 A (RMS)	20 A	100 A	4x4 A (RMS)	4x4 A / 4 A	6x2 A / 4 A
Pal Pal	Peak Current	20 / 40 A	28 A (RMS)	40 A	140 A	10 A (RMS)	4x3.2 A / 10 A	6x3.2 A / 10 A
u	RS-232 / USB	√/-	√ <i> </i> -	√ /-	✓ /✓	<i>√ 1√</i>	√ <i> </i> -	√ /-
nicatic	CAN / CANopen	~		~	~	~	*	~
Inmmo	EtherCAT	*	~	~	~	~	Ethernet	*
ŭ	TMLCAN	*	*	~	~	~	*	~
ntrol	Control Functions Position, Speed, Torque	~	~	~	~	✓	*	~
on Col	Electronic Gearing	~	~	~	~	✓	*	~
Motio	Electronic Camming	*	~	~	~	✓	*	~
tputs	Analog Inputs	2	2	2	1	4 x 1	4 x 2	6 x 2
s / Out	Digital Inputs	4	4	4	5	4 x 3	4 x 5	6 x 5
Input	Digital Outputs	4	4	4	5	4 x 3	4 x 4	6 x 4
	Quadrature Incremental Encoder	~	*	~	~	✓	*	~
	Digital Hall	~	~	~	~	✓	~	~
s	Analog Hall					~	*	~
ensor	Sin / Cos Encoder	*	*	~			*	~
S	SSI/BISS Encoder	~	*	~	~	~		
	Tamagawa		*			~		
	Resolver/En DAT	- 1~	- 1×	- 1⁄	- 1⁄	- 1⁄		
	Size (mm)	139 x 94 x 25	139 x 94 x 25	60 x 40 x 28	104 x 95 x 47	85 x 69 x 28	100 x 98 x 37	160 x 122 x 22
Others	Weight (g)	240	240	45	300	120	125	200
	Ambient Temp. Range (*)	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C

	5	T	Е	С	H	N	0	S	0	F
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iMOT17 Step		iMOT1	17 Brushless		iMOT23	Step	Gearheads	Family	,	
7	Ĩ	Ţ				1	A	5		
iMOT 17xS XM- CAN Intelligent Step Motors 0.3 Nm	iMOT 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- CAT Intelligent Brushless Motors 0.1-0.3.Nm	iMOT 23xS XM- CAN Intelligent Step Motors 1-1.8 Nm	iMOT 23xS TM- CAN/CAT Intelligent Step Motors 1-1.8 Nm	GP Gearheads up to 90 Nm		
									DC	င၀
~	~	*				~	~		• Step (up to 512 µsteps)	ntrolle
			AC	AC	AC				• Brushless (AC & DC)	ed Mot
									• Linear	ors
12-48V	12-48V	12-48V	12-48V	12-48V	12-48V	12-48V	12-48V		Bus Voltage	р. П
0.3 Nm	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	lectric
0.5 Nm	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	ç
~	~		~	~		~	~		CAN / CANopen	
		~			~		~		EtherCAT	
~	~		~	~		~	~		TMLCAN	n
~	~	~	~	~	~	~	~		Control Functions Position, Speed, Torque	Moti
~	~	~	~	~	~	~	~		Electronic Gearing	on Co
~	~	~	~	~	~	✓	~		Electronic Camming	ntrol
1	1	1	1	1	1	1	1		Analog Inputs	Input
5	4	4	4	4	4	5	4		Digital Inputs	s / Ou
2	2	2	2	2	2	2	2		Digital Outputs	tputs
Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal		Quadrature Incremental Encoder	
									Digital Hall	
									Linear Hall	
									Sin / Cos Encoder	ensor
									SSI Encoder	N.
									BiSS Encoder	
									Resolver	
51÷65x43x57	51÷65x43x57	51÷65x43x57	58÷91x43x57	58÷98x43x57	58÷98x43x57	68÷92x58x73	68÷92x58x73	40 / 57 / 86 Diameter	Size (mm)	
285-600	285-600	285-600	325-700	325-700	325-700	700-1100	700-1100	Up to 4500	Weight (g)	Others
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
- 7-40 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 model)

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 36 V, 2 A Intelligent Servo Drives 75 W

- · Suitable for rotary, linear brushless, DC brush and step motors
- 9-36 V power supply (motor and logic)
- 2 A continuous, 3.2 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:

P028.001.E001 iPOS3602 VX-CAN Servo Drive, 36 V, 2A, CAN

iPOS3604 VX / iPOS3604 MX 36 V, 4 A Intelligent Servo Drives 144 W

- Suitable for rotary, linear brushless, DC brush and step motors
- 5-36 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

36 V, 2 A

75 W



T E C H N O S O F T





iPOS3602 BX / HX **Intelligent Servo Drives**

- · Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V single power supply
- Continuous current: 2A
- · Peak current: 3.2A
- 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 36 V, 4 A **Intelligent Servo Drives** 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:

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



- · Suitable for DC brushed, brushless, voice coil or linear motors · 6-48 V single power supply
- · Continuous current: 3-4A (RMS), peak current: 10A 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, TMLCAN and CANopen protocols, EtherCAT • Size: 38.1 x 25 x 8.4 mm (MZ model) / 38.6 x 40.6 x 22.8 mm
- (CZ model)

Ordering information:

P020.001.E102 Micro 4803 MZ-CAN 48V, 3ARMS, CAN, plug-in P020.001.E122 Micro4803 M2-CAT, 48V, 3ARMS, EtherCAT, plug-in P020.801.E202 Micro4803 M2-CAT, 48V, 4ARMS, CAN, standalone P020.801.E222 Micro 4803 CZ-CAT 48V 3A, EtherCAT, standalone







iPOS4808 VX / iPOS4808 MY Intelligent Servo Drives

48 V, 8 A 400 W

- Suitable for DC brushed, brushless, step or linear motors
- 11-50 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

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

iPOS4808 MY CAN/CAT-STO Intelligent Servo Drive

48 V, 8 A 400 W

- · Suitable for DC brushed, brushless, step or linear motors
- 4-50 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) x 44 x 21 mm

Ordering information:

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

iPOS4808 BX CAN/CAT	48 V, 8 A
Intelligent Servo Drive	400 W

- · Suitable for DC brushed, brushless, step or linear motors
- 11-50 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, 8A, CAN P027.014.E221 iPOS4808 BX-CAT Servo Drive, 48 V, 8A, EtherCAT







iPOS4810 MZ/XZ **Intelligent Servo Drive**

48 V, 10 A RMS 700W

48 V, 15A RMS

1kW

- · Suitable for DC brushed, brushless, step or linear motors
- Motor supply: 12-50V; 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 Linear Halls
- 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-CAN model)

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**

- · Suitable for DC brushed, brushless, step or linear motors
- Motor supply: 12-50V; Logic SELV/ PELV supply: 9-36V
- · Continuous current: 15A RMS, peak current: 28 A 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 and linear Hall sensor
- · 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 32.5 mm(XZ-CAT: model) 93 x 43.8 x 30.5 mm(XZ-CAN)

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

- iPOS4850 BX CAN/CAT 48 V, 50A Intelligent Servo Drive 2,5 kW
- · Suitable for DC brushed, brushless, 3-phase step or linear motors
- Motor supply: 11-60V; Logic supply: 9-36V
- Continuous current: 45A(RMS), peak current: 64A(RMS) 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

80 V, 15 A RMS

1,7kW

- Suitable for DC brushed, brushless, step or linear motors
- 11-80 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 , digital
- 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

- Suitable for DC brushed, brushless, step or linear motors
- Motor supply: 12-80V; 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

Ordering information:

P023.026.E221 iPOS8015 BZ-CAT Servo Drive, 15A RMS

iMOTIONCUBE	80 V, 20 A
Intelligent Servo Drive	1,6 kW

- · Suitable for DC brushed, brushless, step or linear motors
- 11-80 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 digital
- 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 CAN , 80V 20A P025.126.E111 IMOTIONCUBE CAN-STO Pin plug version, CANopen, STO inputs P025.126.E121 IMOTIONCUBE CAT-STO - Pin plug version, EtherCAT, STO inputs







iGVD BX CAN/CAT STO Intelligent Servo Drive 80V, 100A 8kW

 \bullet Suitable for DC brushed, brushless, 3-phase step or linear motors

- Motor supply: 12-80V; Logic SELV/ PELV supply: 9-36V
- Continuous current: 100A, peak current: 140A peak
- \bullet Digital inputs (5) / outputs (5), 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 BX CAN STO , 80V, 100A, cl.frame, enc, CAN, STO P025.027.E221 iGVD71 BX CAT, 80V, 100A, cl.frame, enc, EtherCAT, STO

Micro4803 SY	7 - 48 V
Multi-axis Motion System	4 x 150 W

- Up to 4 axis motion system based on Micro4803 CZ
- For brushless, rotary and linear motors, voice coils and DC brushed motors
- 6-48V logic supply
- Each axis supports 3A (RMS) continuous, 10A (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: 85x69x28mm
- Ordering information:

P020.200.E403 – Micro4803-SY3 Multi Axis System, 3 x Micro4803 CZ, EtherCAT P020.200.E404 – Micro4803-SY4 Multi Axis System, 4 x Micro4803 CZ, EtherCAT

iPOS360x SX/SY	12-36 V
Multi-axis Motion System	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)
 24 continuous / 2.24 pook respectively 44 continuous
- 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:

P028.002.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 12-48 V Intelligent Step Motors 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	12-48 V
Intelligent Brushless Servo Motors	0.1-0.3 Nm

- 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	12-48 V
Intelligent Step Motors	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





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.







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Trapezoidal Speed Profiles

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S-curve Profiles



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Trapezoidal Position Profiles

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Additive Position Profile



PT Mode



Electronic Gearing - Master

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Electronic Gearing - Slave

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Homing Mode

Test 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[™] 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



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



Getting Started



Motion Programming

EasyMotion Studio



TML_LIBs for PC



TML_LIBs for PLC



TML programming Manual



EasySetUp



Application Support Getting started with EasyMotion Studio

Application Notes with EasyMotion Studio



FAQ



Tutorials with EasyMotion Studio



support@technosoftmotion.com



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