



Rear view; Pins facing upwards; All dimensions are in mm; Header pitch is 2.54 mm. Drawing not to scale.

Motor – sensor configurations					
Sensor \ Motor	PMSM	BLDC	DC BRUSH	STEP (2-ph)	STEP (3-ph)
Incr. Encoder	✔		✔	✔	
Incr. Encoder + Hall	✔	✔			
Analog Sin/Cos encoder	✔	✔	✔	✔	
SSI	✔	✔	✔	✔	
BiSS-C	✔	✔	✔	✔	
Linear Halls	✔				
Tacho			✔		
Open-loop (no sensor)				✔	✔

- digital reference
 - Analogue sin/cos encoder interface (differential 1V_{pp})
 - Digital Hall sensor interface (single-ended and open collector)
 - Linear Hall sensors interface
- 2nd feedback devices supported:
 - Incremental encoder interface (differential)
 - pulse & direction interface (differential) for external (master)
 - digital reference
 - BISS / SSI encoder interface
- STO: 2 safe torque-off inputs, safety integrity level (SIL3/Cat3/PLe) acc. to EN61800-5-1;-2/ EN61508-3;-4/ EN ISO 13849-1.
- 6 digital inputs, 12-36V, PNP/NPN programmable: 2 for limit switches, 4 general-purpose
- 5 digital outputs, 5-36V, 0.5A, NPN open-collector: Ready, Error, 3 general-purpose
- 2 analogue inputs: 12-bit, 0-5V: Reference, Feedback or general purpose
- RS-232 serial & CAN-bus 2.0B interfaces
- 127 h/w addresses selectable by h/w pins configuration
- 16k x 16 SRAM memory for data acquisition
- 16k x 16 E²ROM to store setup data, TML motion programs, cam tables and other user data
- Operating ambient temperature: 0-40°C (over 40°C with derating)
- NTC/PTC analogue Motor Temperature sensor input

- **Features**
 - Motion controller and drive in a single compact unit based on MotionChip™ technology
 - Universal solution for control of rotary and linear brushless, brushed and 2 or 3-phase step motors
 - Advanced motion control capabilities (PVT,S-curve, electronic cam)
 - Motor supply: 11-50V; Logic SELV/ PELV supply: 9-36V; STO SELV/ PELV supply: 18-40V
 - Output current: 8A cont. (BLDC mode); 20A_{PEAK}, up to 100kHz PWM
- Feedback Devices (dual-loop support)
 - 1st feedback devices supported:
 - Incremental encoder interface (single ended or differential)
 - pulse & direction interface (single ended) for external (master)

Name EP	First edition August 18, 2016	Document template: P099.TQT.564.0001	Last edition August 18, 2016	Visa : GC
TECHNOSOFT		Title of document iPOS4808 MY-CAN-STO PRODUCT DATA SHEET	N° document P027.314.E111.DSH.10B	Page: 1 of 5

iPOS4808 MY-CAN-STO DATASHEET

P/N: P027.314.E111

Mating Connectors			
Ref	Producer	Part No.	Description
J1	Samtec	SSQ-112-01-G-S	1x12 contacts, socket 2.54mm-pitch accepting 0.635mm square pin
J2	FCI	87606-307LF	2x7 contacts, socket, 2.54mm-pitch accepting 0.635mm square pin
	TE Connectivity	534206-7	
J4	Samtec	SSQ-116-01-G-D	2x12 contacts, socket 2.54mm-pitch accepting 0.635mm square pin
J5	Samtec	SSQ-108-01-G-S	1x8 contacts, High-current socket 2.54mm-pitch accepting 0.635mm square pin

Pin	Name	Type	Description
1	GND	-	Return ground for all signals. Internally connected to J4 pins 31 and 32, to metallic cover, and to the 3 fixing screws
2	TMLCAN / CANopen	I	Connect to GND to enable CANopen protocol Leave disconnected for TMLCAN protocol
3	Axis ID Bit6	I	8 bit H/W Axis ID register. Up to 127 H/W axis ID combinations.
4	Axis ID Bit5	I	
5	Axis ID Bit4	I	
6	Axis ID Bit3	I	
7	Axis ID Bit2	I	
8	Axis ID Bit1	I	
9	Axis ID Bit0	I	
10	reserved	-	Reserved for interface extensions†
11	reserved	-	Reserved for interface extensions†
12	reserved	-	Reserved for interface extensions†

Pin	Name	Type	Description
1	STO1+	I	Apply between both STO1+, STO2+ and STO1-, STO2- 24V DC from SELV/ PELV power supply for motor PWM output operation
2	STO2+	I	
3	STO1-	I	
4	STO2-	I	
5	LH1	I	Linear Hall 1 input
6	LH2	I	Linear Hall 2 input
7	IN4	I	12-36V general-purpose digital PNP/NPN input
8	IN5	I	12-36V general-purpose digital PNP/NPN input
9	OUT0	O	5-36V 0.5A, general-purpose digital output, NPN open-collector/TTL pull-up
10	OUT3/ Ready	O	5-36V 0.5A, drive Ready output, active low, NPN open-collector/TTL pull-up. Also drives the green LED.
11	OUT1	O	5-36V 0.5A, general-purpose digital output, NPN open-collector/TTL pull-up
12	OUT2/ Error	O	5-36V 0.5A, drive Error output, active low, NPN open-collector/TTL pull-up. Also drives the red LED
13	REF	I	Analogue input, 12-bit, 0-5V. Used to read an analog position, speed or torque reference, or used as general purpose analogue input
14	FDBK / LH3	I	Analogue input, 12-bit, 0-5V. Used to read an analogue position or speed feedback (as tacho), or used as general purpose analogue input / or Linear Hall 3 input

Pin	Name	Type	Description
1..10	Reserved	-	Reserved for Technosoft communication interface extensions†

Pin	Name	Type	Description
1	IN0	I	12-36V general-purpose digital PNP/NPN input
2	IN1	I	12-36V general-purpose digital PNP/NPN input
3	IN2/LSP	I	12-36V digital PNP/NPN input. Positive limit switch input
4	IN3/LSN	I	12-36V digital PNP/NPN input. Negative limit switch input
5	B2-/Dir-/CLK-/MA-	I/O	Incr. encoder2 B- diff. input, or Dir-, or Clock- for SSI, or Master- for BiSS; has 150Ω resistor between pins 5 and 7
6	B1-/Cos-	I	Incr. encoder1 B- diff. input, or analogue encoder Cos- diff. input
7	B2+/Dir+/CLK+/MA+	I/O	Incr. encoder2 B+ diff. input, or Dir+, or Clock+ for SSI, or Master+ for BiSS; has 150Ω resistor between pins 5 and 7
8	B1+/Cos+	I	Incr. encoder1 B single-ended, or B+ diff. input, or analogue encoder Cos+ diff. input
9	A2+/Pulse+/Data+/SL+	I	Incr. encoder2 A+ diff. input, or Pulse+, or Data+ for SSI, or Slave+ for BiSS; has 150Ω resistor between pins 9 and 11
10	A1+/Sin+	I	Incr. encoder1 A single-ended, or A+ diff. input, or analogue encoder Sin+ diff. input
11	A2-/Pulse-/Data-/SL-	I	Incr. encoder2 A- diff. input, or Pulse-, or Data- for SSI, or Slave- for BiSS; has 150Ω resistor between pins 9 and 11
12	A1-/Sin-	I	Incr. encoder1 A- diff. input, or analogue encoder Sin- diff. input
13	Z2+	I	Incr. encoder2 Z+ diff. input ; has 150Ω resistor between pins 13 and 15
14	Z1+	I	Incr. encoder1 Z single-ended, or Z+ diff. input,
15	Z2-	I	Incr. encoder2 Z- diff. input; has 150Ω resistor between pins 13 and 15
16	Z1-	I	Incr. encoder1 Z- diff. input
17	Hall 1	I	Digital input Hall 1 sensor
18	CAN Hi	I/O	CAN-Bus positive line(dominant high)
19	Hall 2	I	Digital input Hall 2 sensor
20	CAN Lo	I/O	CAN-Bus negative line (dominant low)
21	Hall 3	I	Digital input Hall 3 sensor
22	232TX	O	RS-232 Data Transmission
23	+5V _{OUT}	O	5V output supply for I/O usage
24	232RX	I	RS-232 Data Reception
25	Temp Mot	I	NTC/PTC input. Used to read an analog temperature value
26	Reserved	-	Reserved. Do not connect.
27	+V _{LOG}	I	Positive terminal of the logic supply input: 9 to 36V _{DC} from SELV/ PELV type power supply
28	OUT4	O	5-36V 0.5A, general-purpose digital output, NPN open-collector/TTL pull-up
29	+V _{MOT}	I	Positive terminal of the motor supply: 11 to 48V _{DC}
30	+V _{MOT}	I	Positive terminal of the motor supply: 11 to 48V _{DC}
31	GND	-	Return ground for all signals. Internally connected to J4 pin 32, to J1 pin 1, to metallic cover, and to the 3 fixing screws
32	GND	-	Return ground for all signals. Internally connected to J4 pin 32, to J1 pin 1, to metallic cover, and to the 3 fixing screws

Pin	Name	Type	Description
1,2	A/A+	O	Phase A for 3-ph motors, A+ for 2-ph steppers, Motor+ for DC brush motors
3,4	B/A-	O	Phase B for 3-ph motors, A- for 2-ph steppers, Motor- for DC brush motors
5,6	C/B+	O	Phase C for 3-ph motors, B+ for 2-ph steppers
7,8	Br/B-	O	Brake resistor / Phase B- for 2-ph steppers

Name EP	First edition August 18, 2016	Document template: P099.TQT.564.0001	Last edition August 18, 2016	Visa : GC
 TECHNOSOFT		Title of document iPOS4808 MY-CAN-STO PRODUCT DATA SHEET	N° document P027.314.E111.DSH.10C Page: 2 of 5	

Electrical characteristics

All parameters measured under the following conditions (unless otherwise specified):

- VLOG = 24 VDC; VMOT = 48VDC
- Supplies start-up / shutdown sequence: -any-
- Load current (sinusoidal amplitude / continuous BLDC, DC, stepper) = 8A

Operating Conditions		Min.	Typ.	Max.	Units	
Ambient temperature		0		40 ¹	°C	
Ambient humidity	Non-condensing	0		90	%Rh	
Altitude / pressure ²	Altitude (vs. sea level)	-0.1	0 ÷ 2.5	2	Km	
	Ambient Pressure	0 ²	0.75 ÷ 1	10.0	atm	
Storage Conditions		Min.	Typ.	Max.	Units	
Ambient temperature		-40		100	°C	
Ambient humidity	Non-condensing	0		100	%Rh	
Ambient Pressure		0		10.0	atm	
ESD capability (Human body model)	Not powered; applies to any accessible part			±0.5	kV	
	Original packaging			±15	kV	
Mechanical Mounting		Min.	Typ.	Max.	Units	
Airflow	natural convection ³ , closed box					
Spacing required for vertical mounting	Between adjacent drives	30			mm	
	Between drives and nearby walls	30			mm	
	Between drives and roof-top	20			mm	
Spacing required for horizontal mounting	Between adjacent drives	4			mm	
	Between drives and nearby walls	5			mm	
	Space needed for drive removal	10			mm	
Between drives and roof-top	15			mm		
Insertion force	Using recommended mating connectors		TBD	TBD	N	
Extraction force		TBD	TBD		N	
Environmental Characteristics		Min.	Typ.	Max.	Units	
Size (Length x Width x Height)	Global size	60 x 43.6 x 22			mm	
		~2.36 x 1.72 x 0.87			inch	
Weight		43			g	
Cleaning agents	Dry cleaning is recommended	Only Water- or Alcohol- based				
Protection degree	According to IEC60529, UL508	IP20			-	
Logic Supply Input (+V _{LOG})		Min.	Typ.	Max.	Units	
Supply voltage	Nominal values	9		36	V _{DC}	
	Absolute maximum values, drive operating but outside guaranteed parameters	8		40	V _{DC}	
	Absolute maximum values, continuous	-0.6		42	V _{DC}	
	Absolute maximum values, surge (duration ≤ 10ms) [†]	-1		+45	V	
Supply current	+V _{LOG} = 12V		130		mA	
	+V _{LOG} = 24V		90	280		
	+V _{LOG} = 40V		85			
Motor Supply Input (+V _{MOT})		Min.	Typ.	Max.	Units	
Supply voltage	Nominal values	11		50	V _{DC}	
	Absolute maximum values, drive operating but outside guaranteed parameters	9		52	V _{DC}	
	Absolute maximum values, continuous	-0.6		54	V _{DC}	
	Absolute maximum values, surge (duration ≤ 10ms) [†]	-1		57	V	
Supply current	Idle		1	5	mA	
	Operating	-20		±8		A
	Absolute maximum value, short-circuit condition (duration ≤ 10ms) [†]			26		A

¹Operating temperature at higher temperatures is possible with reduced current and power ratings

²iPOS4808 can be operated in vacuum (no altitude restriction), but at altitudes over 2,500m, current and power rating are reduced due to thermal dissipation efficiency.

³In case of forced cooling (conduction or ventilation) the spacing requirements may drop substantially down to zero as long as the ambient temperature is kept below the maximum operating limit

Motor Outputs (A/A+, B/A-, C/B+, BR/B-)		Min.	Typ.	Max.	Units
Nominal output current, continuous ⁴	for DC brushed, steppers and BLDC motors with Hall-based trapezoidal control			8	A
	for PMSM motors with FOC sinusoidal control (sinusoidal amplitude value)			8	
	for PMSM motors with FOC sinusoidal control (sinusoidal effective value)			5.66	
Motor output current, peak	maximum 2.5s	-20		+20	A
Short-circuit protection threshold		±22	±26	±30	A
Short-circuit protection delay		5	10		µs
On-state voltage drop	Nominal output current; including typical mating connector contact resistance		±0.3	±0.5	V
Off-state leakage current			±0.5	±1	mA
Motor inductance (phase-to-phase)	Recommended value, for current ripple max. ±5% of full range; +V _{MOT} = 36 V	F _{PWM}			µH
		20 kHz	330		
		40 kHz	150		
	60 kHz	120			
	80 kHz	80			
	100 kHz	60			
Minimum value, limited by short-circuit protection; +V _{MOT} = 36 V	20 kHz	120			
	60 kHz	40			
	40 kHz	30			
Motor electrical time-constant (L/R)	Recommended value for ±5% current measurement error	20 kHz	250		µs
		40 kHz	125		
		60 kHz	100		
		80 kHz	63		
100 kHz	50				
Current measurement	FS = Full Scale accuracy		±4	±8	%FS
Digital Inputs (IN0, IN1, IN2/LSP, IN3/LSN, IN4, IN5) ⁵		Min.	Typ.	Max.	Units
Mode compliance		PNP			
Default state	Input floating (wiring disconnected)	Logic LOW			
Input voltage	Logic "LOW"	-10	0	2.2	V
	Logic "HIGH"	6.3		36	
	Floating voltage (not connected)		0		
	Absolute maximum, continuous	-10		+39	
	Absolute maximum, surge (duration ≤ 1s) [†]	-20		+40	
Input current	Logic "LOW"; pulled to GND		0		mA
	Logic "HIGH"		1.3	2	
Mode compliance		NPN			
Default state	Input floating (wiring disconnected)	Logic HIGH			
Input voltage	Logic "LOW"	-10		2.2	V
	Logic "HIGH"	6.3		36	
	Floating voltage (not connected)		3		
	Absolute maximum, continuous	-10		+36	
	Absolute maximum, surge (duration ≤ 1s) [†]	-20		+40	
Input current	Logic "LOW"; Pulled to GND	-1.6	0.6	1	mA
	Logic "HIGH"; Pulled to +24V			0.3	
Input frequency		0		150	kHz
Minimum pulse		3.3			µs
ESD protection	Human body model	±2			kV

⁴ @20kHz F_{PWM}

⁵ The digital inputs are software selectable as PNP or NPN

Name	First edition	Document template: P099.TQT.564.0001	Last edition	Visa :
EP	August 18, 2016		August 18, 2016	GC
		Title of document	N° document	
		iPOS4808 MY-CAN-STO PRODUCT DATA SHEET		P027.314.E111.DSH.10C
			Page: 3 of 5	

iPOS4808 MY-CAN-STO DATASHEET

P/N: P027.314.E111

Digital Outputs (OUT0, OUT1, OUT2/Error, OUT3/ Ready, OUT4)		Min.	Typ.	Max.	Units	
Mode compliance	All outputs (OUT0, OUT1, OUT2/Error, OUT3/Ready)	NPN 24V				
Default state	Not supplied (+V _{LOG} floating or to GND)	High-Z (floating)				
	Immediately after power-up	Logic "HIGH"				
	Normal operation	Logic "HIGH"				
Output voltage	Logic "LOW"; output current = 0.5A			0.8	V	
	Logic "HIGH"; output current = 0, no load	OUT2/Error, OUT3/ Ready	2.9	3		3.3
		OUT0, OUT1, OUT4	4	4.5		5
	Logic "HIGH", external load to +V _{LOG}		V _{LOG}			
	Absolute maximum, continuous	-0.5		V _{LOG} +0.5		
	Absolute maximum, surge (duration ≤ 1s) †	-1		V _{LOG} +1		
Output current	Logic "LOW", sink current			0.5	A	
	Logic "LOW", sink current, pulse ≤ 5 sec.			1	A	
	Logic "HIGH", source current; external load to GND; V _{OUT} ≥ 2.0V	OUT2/Error, OUT3/ Ready			2	mA
		OUT0, OUT1, OUT4			4	mA
	Logic "HIGH", leakage current; external load to +V _{LOG} ; V _{OUT} = V _{LOG} max = 40V		0.1	0.2	mA	
Minimum pulse width	2			µs		
ESD protection	Human body model	±15			kV	
Digital Hall Inputs (Hall1, Hall2, Hall3)		Min.	Typ.	Max.	Units	
Mode compliance	TTL / CMOS / Open-collector					
Default state	Logic HIGH					
Input voltage	Logic "LOW"		0	0.8	V	
	Logic "HIGH"	2	5			
	Floating voltage (not connected)		4.4			
	Absolute maximum, surge (duration ≤ 1s) †	-10		+15		
Input current	Logic "LOW"; Pull to GND			1.2	mA	
	Logic "HIGH"; Internal 4.7KΩ pull-up to +5	0	0	0		
Minimum pulse width	2			µs		
ESD protection	Human body model	±5			kV	
Encoder1 Inputs (A1/A1+, A1-, B1/B1+, B1-, Z1/Z1+, Z1-)		Min.	Typ.	Max.	Units	
Single-ended mode compliance	TTL / CMOS / Open-collector					
Input voltage, single-ended mode A/A+, B/B+	Logic "LOW"			1.6	V	
	Logic "HIGH"	1.8				
	Floating voltage (not connected)		3.3			
Input voltage, single-ended mode Z/Z+	Logic "LOW"			1.2	V	
	Logic "HIGH"	1.4				
	Floating voltage (not connected)		4.7			
Input current, single-ended mode A/A+, B/B+, Z/Z+	Logic "LOW"; Pull to GND		5.5	6	mA	
	Logic "HIGH"; Internal 2.2KΩ pull-up to +5	0	0	0		

Encoder2 Inputs (A2+/Data+, A2-/Data-, B2+/Clk+, B2-/Clk-, Z2+, Z2-) ²		Min.	Typ.	Max.	Units
Differential mode compliance	For full RS422 compliance, see ¹	TIA/EIA-422-A			
Input voltage, differential mode	Hysteresis	±0.06	±0.1	±0.2	V
	Common-mode range (A+ to GND, etc.)	-7		+7	
Input impedance, differential	A1+ to A1-, B1+ to B1-, Z1+ to Z1-		1		kΩ
Input frequency	Single-ended mode, Open-collector / NPN	0		5	MHz
	Differential mode, or Single-ended driven by push-pull (TTL / CMOS)		0	10	MHz
		Minimum pulse width	1		
Input voltage, any pin to GND	Absolute maximum values, continuous	-7		+7	V
	Absolute maximum, surge (duration ≤ 1s) †	-11		+14	
ESD protection	Human body model	±1			kV
Sin-Cos Encoder Inputs (Sin+, Sin-, Cos+, Cos-)		Min.	Typ.	Max.	Units
Differential mode compliance	For full RS422 compliance, see ¹	TIA/EIA-422-A			
Input voltage	Hysteresis	±0.06	±0.1	±0.2	V
	Differential mode	-14		+14	
	Common-mode range (A+ to GND, etc.)	-11		+14	
Input impedance, differential	A2+, B2+, Z2+ A2-, B2-, Z2-		150		Ω
Input frequency	Differential mode	0		10	MHz
Minimum pulse width	Differential mode	50			ns
Input voltage, any pin to GND	Operational range	-1	2.5	4	V
	Absolute maximum values, continuous	-7		+7	
	Absolute maximum, surge (duration ≤ 1s) †	-11		+14	
Input impedance	Differential, Sin+ to Sin-, Cos+ to Cos- ³	4.2	4.7		kΩ
	Common-mode, to GND		2.2		kΩ
Resolution with interpolation	Software selectable, for one sine/cosine period	2		10	bits
Frequency	Sin-Cos interpolation	0		450	kHz
	Quadrature, no interpolation	0		10	
ESD protection	Human body model	±1			kV
Analog 0...5V Inputs (REF, FDBK)		Min.	Typ.	Max.	Units
Input voltage	Operational range	0		5	V
	Absolute maximum values, continuous	-12		+18	
	Absolute maximum, surge (duration ≤ 1s) †			±36	
Input impedance	To GND		28		kΩ
Resolution			12		bits
Integral linearity			±2		bits
Offset error			±2	±10	bits
Gain error			±1%	±3%	% FS ⁴
Bandwidth (-3Db)	Software selectable	0		1	kHz
ESD protection	Human body model	±5			kV
RS-232		Min.	Typ.	Max.	Units
Compliance		TIA/EIA-232-C			
Bit rate	Software selectable	9600		115200	Baud
Short-circuit	232TX short to GND	Guaranteed			
ESD protection	Human body model	±2			kV

¹ For full RS-422 compliance, 120Ω termination resistors must be connected across the differential pairs, as close as possible to the drive input pins.
² Encoder2 differential input pins have internal 120Ω termination resistors connected across
³ For many applications, a 120Ω termination resistor should be connected across SIN+ to SIN-, and across COS+ to COS-. Please consult the feedback device datasheet for confirmation.
⁴ "FS" stands for "Full Scale"

Name	First edition	Document template: P099.TQT.564.0001	Last edition	Visa :
EP	August 18, 2016		August 18, 2016	GC
		Title of document	N° document	
		iPOS4808 MY-CAN-STO PRODUCT DATA SHEET	P027.314.E111.DSH.10C	Page: 4 of 5

iPOS4808 MY-CAN-STO DATASHEET

P/N: P027.314.E111

Safe torque OFF (STO1+, STO1-; STO2+, STO2+)		Min.	Typ.	Max.	Units
Safety function	According to EN61800-5-2	STO (Safe Torque OFF)			
EN 61800-5-1/ -2 and EN 61508-5-3/ -4 Classification	Safety Integrity Level	safety integrity level 3 (SIL3)			
	PFHd (Probability of Failures per Hour - dangerous)	8*10 ⁻¹⁰	hour ⁻¹ (0.8 FIT)		
EN13849-1 Classification	Performance Level	Cat3/PLe			
	MTTFd (mean time to dangerous failure)	377			years
Mode compliance		PNP			
Default state	Input floating (wiring disconnected)	Logic LOW			
Input voltage	Logic "LOW" (PWM operation disabled)	-20		5.6	V
	Logic "HIGH" (PWM operation enabled)	18		36	
	Absolute maximum, continuous	-20		+40	
Input current	Logic "LOW"; pulled to GND		0		mA
	Logic "HIGH"; pulled to +Vlog		5	13	
Repetitive test pulses (high-low-high)	Ignored high-low-high			5	ms
				20	Hz
Fault reaction time	From internal fault detection to register DER bit 14 =1 and OUT2/Error high-to-low			30	ms
PWM operation delay	From external STO low-high transition to PWM operation enabled			30	ms
ESD protection	Human body model	±2			kV

Linear Hall Inputs (LH1, LH2, LH3)		Min.	Typ.	Max.	Units
Input voltage	Operational range	0	0.5÷4.5	4.9	V
Input voltage	Absolute maximum values, continuous	-7		+7	V
	Absolute maximum, surge (duration ≤ 1s) †	-11		+14	
Input current	Input voltage 0...+5V	0		0.2	mA
Interpolation Resolution	Depending on software settings			11	bits
Frequency		0		1	kHz
ESD protection	Human body model	±1			kV
CAN-Bus		Min.	Typ.	Max.	Units
Compliance		ISO11898, CiA-301v4.2 & 402v3.0			
Bit rate	Software selectable	125		1000	Kbps
Bus length	1Mbps			25	m
	500Kbps			100	
	≤ 250Kbps			250	
Resistor	Between CAN-Hi, CAN-Lo	none on-board			
Node addressing	Strapping option (AxisID Bit0..6)	1 ÷ 127 ; 255 (all bits 0)			-
ESD protection	Human body model	±15			kV
Supply Output (+5V)		Min.	Typ.	Max.	Units
Output voltage	Current sourced = 250mA	4.8	5	5.2	V
Output current		600	650		mA
Short-circuit		NOT protected			
Over-voltage		NOT protected			
ESD protection	Human body model	±1			kV

† Stresses beyond values listed under "absolute maximum ratings" may cause permanent damage to the device. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Name EP	First edition August 18, 2016	Document template: P099.TQT.564.0001	Last edition August 18, 2016	Visa : GC
 TECHNOSOFT		Title of document iPOS4808 MY-CAN-STO PRODUCT DATA SHEET	N° document P027.314.E111.DSH.10C Page: 5 of 5	