

Top view; Pins facing downward; 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 ² (3-ph)
Incr. Encoder	●		●	●	●
Incr. Encoder + Hall	●	●			
Analog Sin/Cos encoder	●	●	●	●	●
SSI	●	●	●	●	●
BiSS-C	●	●	●	●	●
EnDAT ¹	●	●	●	●	●
Linear Halls	●				
Tacho			●		
Open-loop (no sensor)				●	●

¹ Available starting with F514K firmware version

² Sensor used only for step loss detection

Mating Connector

Ref	Producer	Part No.	Description
J1	Samtec	SSQ-112-01-G-S	High-current socket 2.54mm-pitch accepting 0.635mm square pin
J2	FCI	87606-305LF	2x5 contacts, socket, 2.54mm-pitch accepting 0.635mm square pin
	TE Connectivity	534206-5	
J4	Samtec	SSQ-116-01-G-D	High-current socket 2.54mm-pitch accepting 0.635mm square pin
J5	Samtec	SSQ-108-01-G-S	High-current socket 2.54mm-pitch accepting 0.635mm square pin

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 supply: 9-36V
- 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) 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-C / SSI / EnDAT¹ encoder interface
- 6 digital inputs, 12-36V, PNP/NPN programmable: 2 for limit switches, Enable, 3 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
- 128 h/w addresses selectable by h/w pins configuration
- TMLCAN and CANopen (CiA 301v4.2 and 402v3.0) protocols selectable by h/w pin
- 16k x 16 SRAM memory for data acquisition
- 16k x16 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

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Pin	Name	Type	Description
1	GND	-	Return ground
2	TMLCAN / CANopen	I	Connect to GND to enable CANopen protocol Leave disconnected for TMLCAN protocol
3	Axis ID Bit6	I	
4	Axis ID Bit5	I	
5	Axis ID Bit4	I	8 bit H/W Axis ID register.
6	Axis ID Bit3	I	Connect pin to GND to set bit to 1. Up to 127 H/W axis ID combinations.
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	LH1	I	Linear Hall 1 input
2	LH2	I	Linear Hall 2 input
3	IN4	I	12-36V general-purpose digital PNP/NPN input
4	IN5/ Enable	I	12-36V general-purpose digital PNP/NPN input; Drive enable input
5	OUT0	O	5-36V 0.5A, general-purpose digital output, NPN open-collector/TTL pull-up
6	OUT3/Ready	O	5-36V 0.5A, drive Ready output, active low, NPN open-collector/TTL pull-up. Also drives the green LED.
7	OUT1	O	5-36V 0.5A, general-purpose digital output, NPN open-collector/TTL pull-up
8	OUT2/Error	O	5-36V 0.5A, drive Error output, active low, NPN open-collector/TTL pull-up. Also drives the red LED
9	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
10	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
1,2	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	Cr/B-	O	Chopping resistor / Phase B- for 2-ph steppers

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 & EnDAT, or Master- for BiSS; has 120Ω 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 & EnDAT, or Master+ for BiSS; has 120Ω 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 & EnDAT, or Slave+ for BiSS; has 120Ω 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 & EnDAT, or Slave- for BiSS; has 120Ω 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 120Ω 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 120Ω 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}
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	-	Negative return (ground) of the power supply
32	GND	-	Negative return (ground) of the power supply

† leave unconnected if interface extensions are not used

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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
Spacing required for horizontal mounting	Between drives and roof-top	20			mm
	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 12.4		mm	
		~2.36 x 1.72 x 0.49		inch	
Weight		22		g	
Cleaning agents	Dry cleaning is recommended	Only Water- or Alcohol- based			
Protection degree	According to IEC60529, UL508	IP00		-	
Power dissipation	Idle (no load)		1.7		W
	Operating		4.3		
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
	+V _{LOG} = 12V		130		
Supply current	+V _{LOG} = 24V		90	280	
	+V _{LOG} = 40V		85		
					mA
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	+20	A
	Absolute maximum value, short-circuit condition [†] (duration ≤ 10ms)			26	A

Motor Outputs (A/A+, B/A-, C/B+, CR/B-)		Min.	Typ.	Max.	Units
Nominal output current, continuous ⁴	for DC brushed, steppers and BLDC motors with Hall-based trapezoidal control			8	
	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
Short-circuit protection threshold			±22	±26	±30
Short-circuit protection delay			5	10	μs
On-state voltage drop	Nominal output current; including typical mating connector contact resistance			±0.3	±0.5
Off-state leakage current				±0.5	±1
Motor inductance (phase-to-phase)	Recommended value, for current ripple max. ±5% of full range; +V _{MOT} = 36 V	F _{PWM}			
		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		
		80 kHz	15		
		100 kHz	8		
Motor electrical time-constant (L/R)	Recommended value for ±5% current measurement error	20 kHz	250		
		40 kHz	125		
		60 kHz	100		
		80 kHz	63		
		100 kHz	50		
Current measurement	FS = Full Scale accuracy			±4	±8
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	
	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	
	Logic "HIGH"	6.3		36	
	Floating voltage (not connected)		V _{log}		
	Absolute maximum, continuous	-10		+36	
	Absolute maximum, surge [†] (duration ≤ 1s) [†]	-20		+40	
Input current	Logic "LOW"; Pulled to GND		8	10	
	Logic "HIGH"; Pulled to +24V			0.3	mA
Input frequency		0		150	kHz
Minimum pulse		3.3			μs
ESD protection	Human body model		±2		kV

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

⁴@20Khz F_{PWM}

⁵The digital inputs are software selectable as PNP or NPN

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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	OUT0, OUT1, OUT4		Logic "HIGH"	
		OUT2/Error, OUT3/ Ready		Logic "LOW"	
	Normal operation	OUT0, OUT1, OUT2/Error		Logic "HIGH"	
Output voltage	OUT3/Ready	Logic "LOW"			
	Logic "LOW"; output current = 0.5A			0.8	V
	Logic "HIGH"; output current = 0, no load	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 $\leq 1S$) [†]	-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; $V_{OUT} \geq 2.0V$			2	mA
	OUT0, OUT1, OUT4			4	mA
Minimum pulse width	Logic "HIGH", leakage current; external load to $+V_{LOG}$; $V_{OUT} = V_{LOG}$ max = 40V		0.1	0.2	mA
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	Input floating (wiring disconnected)	Logic HIGH			
Input voltage	Logic "LOW"		0	0.8	V
	Logic "HIGH"	2	5		
	Floating voltage (not connected)			4.4	
	Absolute maximum, surge (duration $\leq 1S$) [†]	-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	Leave negative inputs disconnected	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		
	Logic "LOW"; Pull to GND	5.5	6	mA	

Input current, single-ended mode A/A+, B/B+, Z/Z+	Logic "HIGH"; Internal 2.2kΩ pull-up to +5	0	0	0	
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	Single-ended mode, Open-collector / NPN	1			μs
	Differential mode, or Single-ended driven by push-pull (TTL / CMOS)	50			ns
Input voltage, any pin to GND	Absolute maximum values, continuous	-7		+7	V
	Absolute maximum, surge (duration $\leq 1S$) [†]	-11		+14	
ESD protection	Human body model	± 1			kV
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	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-		120		Ω
Input frequency	Differential mode	0		10	MHz
Minimum pulse width	Differential mode	50			ns
Sin-Cos Encoder Inputs (Sin+, Sin-, Cos+, Cos-)		Min.	Typ.	Max.	Units
Input voltage, differential	Sin+ to Sin-, Cos+ to Cos-		1	1.25	V _{PP}
Input voltage, any pin to GND	Operational range	-1	2.5	4	V
	Absolute maximum values, continuous	-7		+7	
	Absolute maximum, surge (duration $\leq 1S$) [†]	-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 Quadrature, no interpolation	0	450	kHz	
	0	10	MHz		
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 $\leq 1S$) [†]			± 36	
Input impedance	To GND		28		kΩ
Resolution			12		bits
Integral linearity				± 2	bits
Offset error				± 24	mV
Gain error				$\pm 1\%$	$\pm 3\%$ % FS ⁴
Bandwidth (-3dB)	Software selectable	0		1	kHz
ESD protection	Human body model	± 5			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".

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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
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 $\leq 1S$)	-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	
≤ 250 Kbps				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.

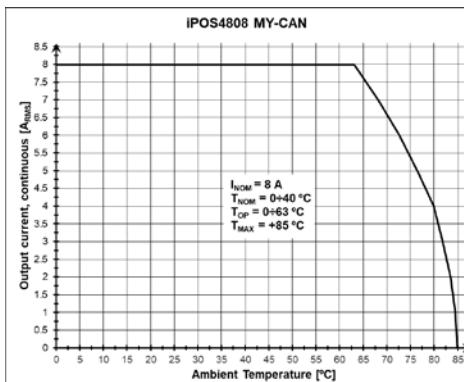


Figure 1. iPOS4808 MY-CAN De-rating with ambient temperature¹

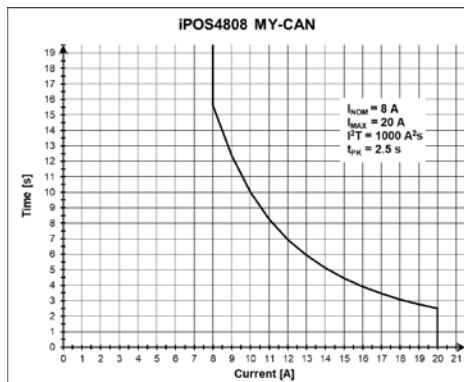


Figure 2. iPOS4808 MY-CAN Over-current diagram¹

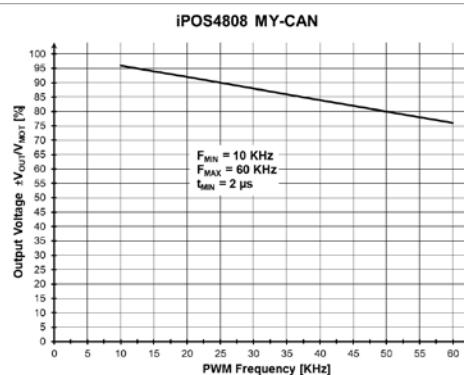


Figure 3. iPOS4808 MY-CAN Output Voltage De-rating with PWM frequency¹

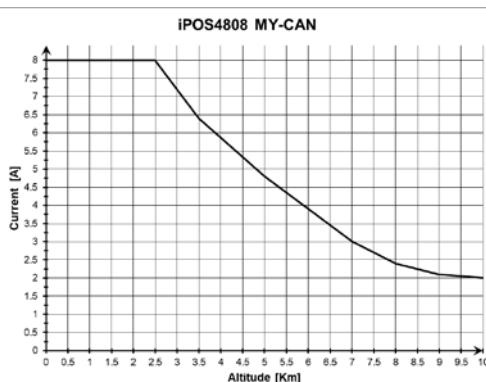


Figure 4. iPOS4808 MY-CAN De-rating with altitude¹

¹ Measured under the following conditions: BLDC; V_{mot}=48V, V_{log}=24V, PWM=20kHz

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