






Motor Controllers



Product Line

Model	FMod-IPECMOT T2 48/10	FMod-IPECMOT 48/10	FMod-I2C485ECMOT DB 48/10	FMod-I2CDCMOT DB 48/1.5	FMod-I2CDCMOT SLP 48/1
					
Dimension (LxBxH) [mm]	120x110x34 (DIN rail)	120x110x34 (DIN rail)	80x56x25	48x34x23	26x28.5x6
Motor type	DC brushed DC brushless	DC brushed DC brushless	DC brushed DC brushless	DC brushed	DC brushed
Communication bus	Ethernet TCP/IP	Ethernet TCP/IP	I2C RS485	I2C	I2C
Power supply (input)	DC [9-48V], max 15A	DC [15-48V], max 15A	DC [15-48V], max 15A	DC [10-48V], max 2A	DC [10-48V], max 2A
Logic supply (input)	Internally generated	Internally generated	Internally generated	DC [5V], max 50mA	DC [5V], max 50mA
Encoder	5 V 2 channels quadrature incremental with differential output + index Compliant with non-differential encoder	5 V 2 channels quadrature incremental with differential output + index	5 V 2 channels quadrature incremental with differential output + index Compliant with non-differential encoder	5 V 2 channels quadrature incremental	5 V 2 channels quadrature incremental
Limits / Inputs	2 limits + 2 IOs	2 limits	2 limits	2 limits	2 limits + 2 IOs
Phases output	PWM 125kHz or 63kHz 4 quadrants management Thermal protection 10 A continuous 15 A max	PWM 69kHz or 35kHz 4 quadrants management Thermal protection 10 A continuous 15 A max	PWM 69kHz or 35kHz 4 quadrants management Thermal protection 10 A continuous 15 A max	PWM 69kHz or 35kHz 4 quadrants management Thermal protection 1.5 A continuous 2.0 A max	PWM 69kHz or 35kHz 4 quadrants management Thermal protection 1 A continuous 2.0 A max
Motion control	32 bit PID Auto-tuning . Brake mode . Free mode . Open loop mode . Speed control mode . Position control mode	32 bit PID Auto-tuning . Brake mode . Free mode . Open loop mode . Speed control mode . Position control mode	32 bit PID Auto-tuning . Brake mode . Free mode . Open loop mode . Speed control mode . Position control mode	32 bit PID Auto-tuning . Brake mode . Free mode . Open loop mode . Speed control mode . Position control mode	32 bit PID Auto-tuning . Brake mode . Free mode . Open loop mode . Speed control mode . Position control mode
Standby mode	-	-	-	-	Max 1 uA @ 5V logic (50nA at 25°C) Max 1 uA @ motor supply (50nA at 25°C)
Extra features	EC motor's Hall sensor can be used as encoders Dual encoder management Active dissipation Phases short-circuited @ power-down	EC motor's Hall sensor can be used as encoders	EC motor's Hall sensor can be used as encoders	-	Low power mode

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Product Line

Model	FMod-I2CSTEPMOT SLP 35/1	FMod-I2CSTEPMOT SLP 35/0.1
		
Dimension (LxBxH) [mm]	39.8x22x6	39.8x22x6
Motor type	2 phases stepper bipolar	2 phases stepper bipolar
Communication bus	I2C	I2C
Power supply (input)	DC [9-35V], max 2A	DC [9-35V], max 200mA
Logic supply (input)	DC [5V], max 50mA	DC [5V], max 50mA
Encoder	-	-
Limits / Inputs	2 limits	2 limits
Phases output	PWM 50kHz Max 8'192 full steps/s Resolution: ¼ step Thermal protection 1 A continuous 1.5 A max	PWM 50kHz Max 8'192 full steps/s Resolution: ¼ step Thermal protection 150mA max and continuous
Motion control	. Open mode . Speed control mode . Position control mode	. Open mode . Speed control mode . Position control mode
Standby mode	Max 1 uA @ 5V logic (50nA at 25°C) Max 1 uA @ motor supply (50nA at 25°C)	Max 1 uA @ 5V logic (50nA at 25°C) Max 1 uA @ motor supply (50nA at 25°C)
Extra features	Low power mode	Low power mode

Developed and made in Switzerland

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