



Item Number	SPMXAE1015	SPMXAE1030	SPMXAE1045	SPMXAE1060	SPMXAE1080	SPMXAE1100	SPMXAE1120HV	SPMXSE1040RX	SPMXSE1060	SPMXSE1085	SPMXSE1100	SPMXSE1120	SPMXSE1130	SPMXSE1150	SPMXSE1160	SPMXSE1160M
Description	Avian 15A Smart ESC	Avian 30A Smart ESC	Avian 45A Smart ESC	Avian 60A Smart ESC	Avian 80A Smart ESC	Avian 100A Smart ESC	Avian 120A Smart ESC	Firma 40A Brushed Smart 2-in-1 ESC and RX	Firma 60A Smart ESC	Firma 85A Smart ESC	Firma 100A Smart ESC	Firma 120A Smart ESC	Firma 130A Smart ESC	Firma 150A Smart ESC	Firma 160A Smart ESC	Firma 160A Marine Smart ESC
Continuous Current	15A	30A	45A	60A	80A	100A	120A	40A	60A	85A	100A	120A	130A	150A	160A	160A
Peak Current	25A	45A	60A	80A	100A	120A	140A	180A	360A	550A	650A	830A	760A	950A	1050A	1050A
Motor	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushed	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
Type	Sensorless	Sensorless	Sensorless	Sensorless	Sensorless	Sensorless	Sensorless	n/a	Sensored	Sensorless	Sensorless	Sensorless	Sensorless	Sensorless	Sensorless	Sensorless
Application	Air / Heli	Air / Heli	Air / Heli	Air / Heli	Air / Heli	Air / Heli	Air / Heli	Surface	Surface Crawler/Scaler	Surface	Surface	Surface	Surface	Surface	Surface	Marine
Input	2S - 4S LiPo	3S - 6S LiPo	3S - 6S LiPo	3S - 6S LiPo	3S - 8S LiPo	3S - 6S LiPo	6S - 12S LiPo	2-3S LiPo / 5-9 cell NiMH	2S-3S Lipo	2S-3S LiPo / 5-9 Cell NiMH	2S-3S LiPo / 5-9 Cell NiMH	3S - 4S LiPo	2S - 4S LiPo	3S - 6S LiPo	3S - 8S LiPo	3S - 8S LiPo
BEC Output / Continuous/Peak	5.2V / 3A (Cont.) / 12A (Peak)	6V / 7.2V Adjustable / 7A (Cont.) / 20A (Peak)	6V / 7.2V Adjustable / 7A (Cont.) / 20A (Peak)	6V / 7.2V Adjustable / 7A (Cont.) / 20A (Peak)	6V / 7.4V / 8.4V Adjustable / 8A (Cont.) / 25A (Peak)	6V / 7.4V / 8.4V Adjustable / 8A (Cont.) / 25A (Peak)	6V / 7.4V / 8.4V Adjustable / 8A (Cont.) / 25A (Peak)	6V / 3A	6V / 7.4V / 3A	6V / 4A	6V / 4A	6V / 4A	6V / 4A	6V / 4A	6V / 8.4V / 5A	6V / 8A
BEC Mode	Linear	Switch	Switch	Switch	Switch	Switch	Switch	Switch	Switch	Linear	Linear	Linear	Linear	Linear	Switch	Switch
Dimensions	35x16x11mm (1.4x0.6x0.4in)	56x27x13mm (2.2x1.1x0.5in)	62x28x13mm (2.4x1.1x0.5in)	59x31x16mm (2.3x1.2x0.6in)	83x35x33mm (3.3x1.4x1.3in)	83x35x33mm (3.3x1.4x1.3in)	88x45x27mm (3.5x1.8x1.1in)	20.5x54x33.5mm (0.81x2.1x1.3in)	47.4 x 36.2 x 24.6 mm	43.3 x 39 (54.6 @ tabs) x 33.9mm (1.7 x 1.5 (2.15 @ tabs) x 1.3in)	43.3 x 39 (54.6 @ tabs) x 33.9mm (1.7 x 1.5 (2.15 @ tabs) x 1.3in)	43.3 x 39 (54.6 @ tabs) x 33.9mm (1.7 x 1.5 (2.15 @ tabs) x 1.3in)	57x37x38mm (2.2x1.4x1.5in)	58x47.5x38.5mm (2.3x1.9x1.5in)	70x55x44mm (2.8x2.2x1.7in)	96x91x36mm (3.8x3.6x1.4in)
Weight	16g (0.6 oz)	50g (1.8 oz)	50g (1.8 oz)	56g (2.0 oz)	145g (5.1oz)	126g (4.4 oz)	195g (6.9 oz)	68g (2.4 oz)	82g (2.9oz)	116g (4.1 oz)	139g (4.9 oz)	153g (5.4 oz)	150g (5.3 oz)	238g (8.4 oz)	280g (9.9 oz)	280g (9.9oz)
Battery Connector	IC3	IC3	IC3	IC3	IC5 (Dual)	IC5	IC5 (Dual)	IC3	IC3	IC3	IC5	IC5 (Dual)	IC5	IC5 (Dual)	IC5 (Dual)	IC5 (Dual)
Battery Leads	75mm / 20AWG	100mm / 14AWG	100mm / 14AWG	150mm / 14AWG	150mm / 12AWG	150mm / 12AWG	150mm / 12AWG	100mm / 14AWG	200mm / 14AWG	150mm / 12AWG	220mm / 12AWG	220mm / 12AWG	160mm / 12AWG	195mm / 10AWG	190mm / 10AWG	200mm / 10AWG
Motor Connector	2mm Female Bullet	3.5mm Female Bullet	3.5mm Female Bullet	3.5mm Female Bullet	4.0mm Female Bullet	4.0mm Female Bullet	4.0mm Female Bullet	3.5mm Female Bullet	4mm Female Bullet	4mm Female Bullet	4mm Female Bullet	4mm Female Bullet	4mm Female Bullet	6.5mm Female Bullet	6.5mm Female Bullet	6.5mm Female Bullet
Motor Leads	100mm / 20AWG	100mm / 14AWG	100mm / 14AWG	100mm / 14AWG	150mm / 12AWG	150mm / 12AWG	150mm / 12AWG	150mm / 16AWG	N/A	150mm / 12AWG	150mm / 12AWG	215mm / 12AWG	150mm / 12AWG	150mm / 10AWG	n/a	n/a
Construction	Heat Shrink	Heat Shrink	Heat Shrink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink	Plastic Case / Aluminum Heat Sink
Cooling Fan	No	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Programming Port / Cable	Cable	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on Switch	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC	3-Pin Port on ESC
Programming Options	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	Transmitter Stick Input / ESC Programmer / SmartLink App / On Screen Text Gen*	ESC Programmer	ESC Programmer / SmartLink App USB Programmer / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App USB Programmer / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App USB Programmer / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App USB Programmer / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App / On Screen Text Gen*	ESC Set Button / ESC Programmer / SmartLink App / On Screen Text Gen*
Protocol	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL* / PWM (for legacy support)	Bi-directional SRXL* / PWM (for legacy support)	Bi-directional SRXL* / PWM (for legacy support)	Bi-directional SRXL* / PWM (for legacy support)	Bi-directional SRXL* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)	Bi-directional SRXL2* / PWM (for legacy support)
Battery Telemetry	n/a	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery	Smart Battery
ESC Telemetry	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Waterproof	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Running Modes	ACRO / Heli (Governor) / Thrust Reversing	ACRO / Heli (Governor) / Thrust Reversing	ACRO / Heli (Governor) / Thrust Reversing	ACRO / Heli (Governor) / Thrust Reversing	ACRO / Heli (Governor) / Thrust Reversing	ACRO / Heli (Governor) / Thrust Reversing	ACRO / Heli (Governor) / Thrust Reversing	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse	Forward/Reverse/Brake, Forward/Brake, Forward/Reverse
On & Off Switch	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SET Switch	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low Voltage Cutoff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Over Current Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Signal Loss Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Over Temperature Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

*With compatible receivers
*May Require Firmware Update to ESC and Smart Compatible Transmitter