

DM542EU/ DM442/ EM542S

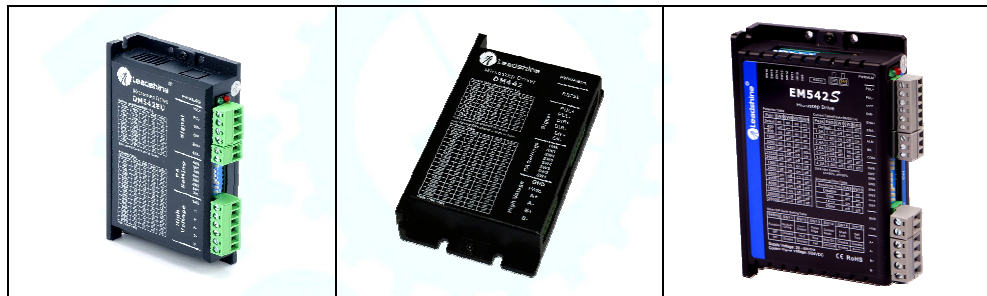
Comparison



Leadshine has a wide product range with over 10 million drivers in the market in different price ranges and performances. Below is a comparison of stepper motor drivers for output current of up to 4.2 Ampere.

Comparison of Digital Drivers

DM542EU/ DM442/ EM542S



	DM542EU		DM442		EM542S		
Auto-Tuning	✓		✓		✓		
Anti-resonance	✓		✓		✓		
Extra-low motor noise	✓		✓		✓		
Idle-current reduction	✓		✓		✓		
Protection for over-voltage/ over-current	✓		✓		✓		
Optical isolated inputs	✓		✓		✓		
Input PUL/ DIR	✓		✓		✓		
CW/ CCW mode	✗		✓		✓		
RS232 programming	✗		✓		✓		
Fault & Brake Output	✗		✗		✓		
Self-test via DIP switch	✗		✗		✓		
Current setting via software (steps 0.1 A)	✗		✓		✓		
Current setting via DIP switches (steps)	8		8		8		
Steps/ revolution via DIP switches	400 - 25.600		400 - 25.600		200 - 25.600		
Selectable micro-step resolutions via DIP switches	16		16		16		
Steps/ revolution via software (increase by 200)	N		200 - 102.400		200 - 51.200		
Voltage tolerance of inputs (High Level)	3,3 – 5,0 V (TTL)		3,3 - 5,0 V (TTL)		3,3 - 5,0 V (TTL)/ 12 - 24 V		
Dimensions [mm]	118 x 75,5 x 25,5		116 x 69,2 x 26,5		118 x 75,5 x 25,5		
Connectors	WANJIE: WJ2EDGK, 5,0 mm pitch, 2-pin WANJIE: WJ2EDGK, 5,0 mm pitch, 4-pin WANJIE: WJ2EDGK, 5,0 mm pitch, 6-pin		ANYTEK: TJ, 3,81 mm pitch, 2-pin ANYTEK: TJ, 3,81 mm pitch, 4-pin ANYTEK: TJ, 3,81 mm pitch, 6-pin		ANYTEK: TJ, 3,81 mm pitch, 3-pin ANYTEK: TJ, 3,81 mm pitch, 6-pin ANYTEK: TJ, 5,0 mm pitch, 2-pin ANYTEK: TJ, 5,0 mm pitch, 4-pin		
Weight	227 g		200 g		250 g		
	Min	Max	Min	Max	Min	Max	Units
Output current via DIPs	1,0	4,2	1,46	4,2	1,0	4,2	A
Output current via SW			0,5	4,2	0,5	4,2	A
Supply voltage	20	50	20	40	20	50	VDC
Logical signal current	7	16	7	16	7	16	mA
Pulse input frequency	0	200	0	200	0	200	kHz
Minimal pulse width	2,5		2,5		2,5		µs
Minimal direction timing	5,0		5,0		5,0		µs
Insulation resistance	500		500		500		MΩ