



ELEKTRONIKA

Your Partner in Growth

Elektronika Sales Pvt Ltd

Solution support

BLDC Motor Control [FAN / Appliances / Industrial]

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[Website](#) | [Line Card](#) | [Corporate Video](#)

BLDC Motor control



We offer the right NXP Microcontroller based variable Speed BLDC Fan Controller

This solution also can be used for appliance

With the card's rich features / high-performance / compact size it will typical to meet all customer need

Our Microcontroller (MCU) based, intelligent, variable-speed control, brushless DC (BLDC) fans are Designed in order to fulfill all the products specification.

Variable speed control / low noise / reliability / long lifetime / low power consumption/ protection /easy to maintain/upgrade & communication interface

We also provide enablement solution for BLUETOOTH Control & RF Remote Solution add on

Low voltage BLDC controller



High voltage BLDC controller



Controller Features

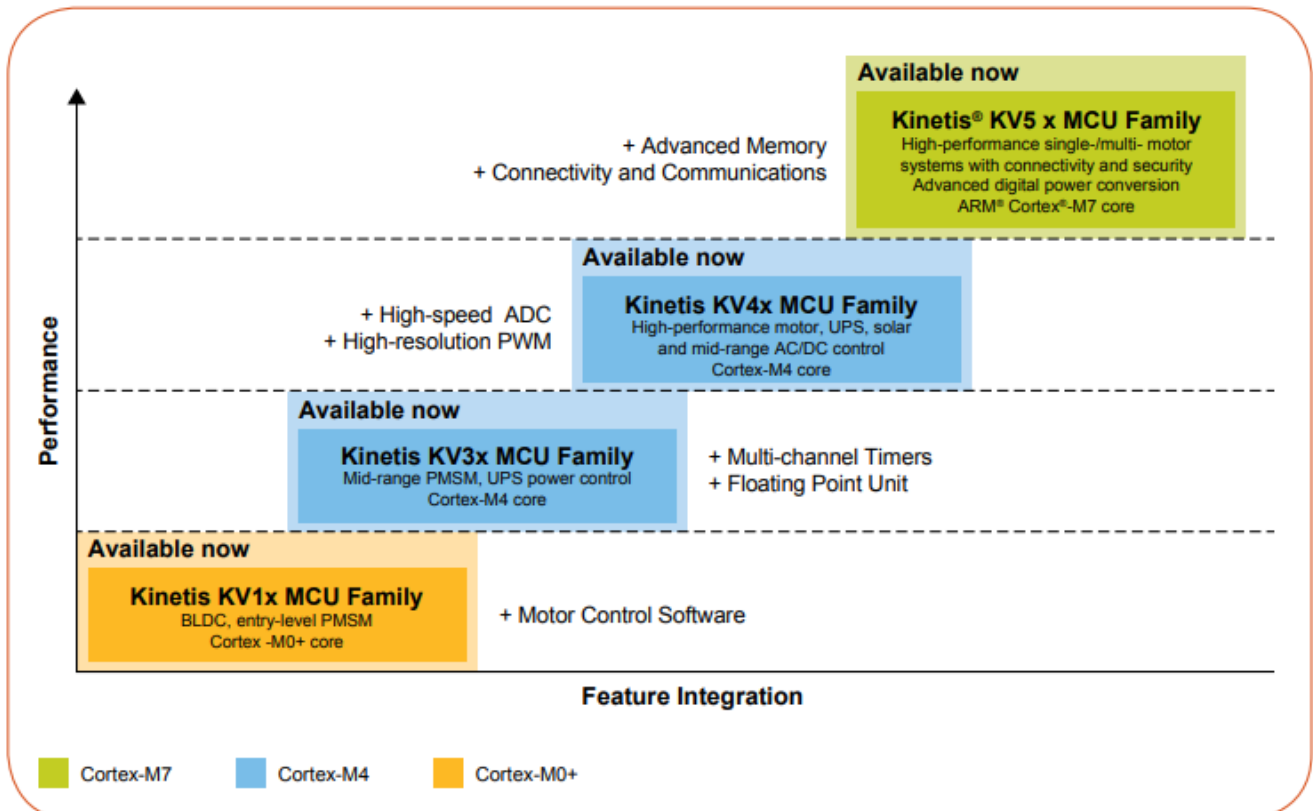
Features	LV controller	BLDC	HV controller	BLDC	Economy variant
Input AC Voltage range	110-315V		110-315V		150-300V
Output DC Voltage	24V		350V		350V
Power factor	0.97		0.97		>0.9
Speed Control	IR/RF/IOT/Regulator		IR/RF/IOT/Regulator		Regulator
Features	Modular platform, Motor agnostic		Modular platform extendable upto 200w only with change of power components, Motor agnostic		Blade agnostic, Speed regulation without droop in reference to input voltage.
Motor controller	Sensor less control strategy		Sensor less control strategy		Sensor less control strategy

Kinetis® V Series:



Real-time Motor Control & Power Conversion MCUs based on Arm® Cortex®-M0+/M4/M7

Kinetis® V Series MCUs support a wide range of BLDC, PMSM, and ACIM motor control as well as digital power conversion applications

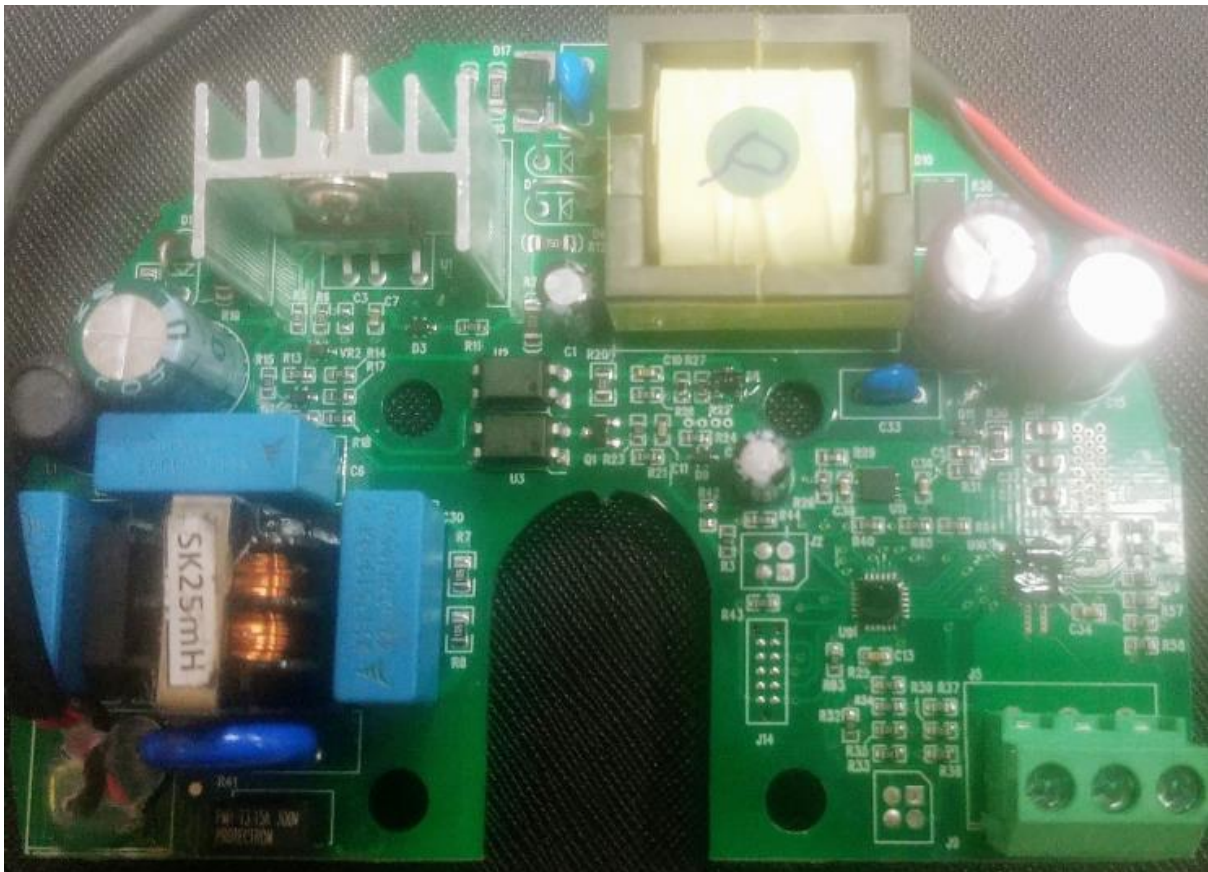


MCU Family	Core	Memory	Motor Control Timers	eFlexPWM	ADC	DAC	ACMP	Comms.	Packages
KV5x	240 MHz CM7 DSP + FPU	512 KB– 1 MB Flash	2 x 8-ch. 2 x 2-ch. FlexTimer	2 x 12-ch. eFlexPWM + Nano- Edge	4 x 12-bit 5 Msps, 1 x 16-bit	1 x 12-bit	4 x ACMP with 6-bit DAC	Ethernet, 3 x CAN	144 pin 100 pin
KV4x	168 MHz CM4 DSP + FPU	64–256 KB Flash	2 x 8-ch. 1 x 2-ch. FlexTimer	12-ch. eFlexPWM + Nano- Edge	2 x 12-bit 4.1 Msps with PGA	2 x 12-bit	4 x ACMP with 6-bit DAC	2 x CAN	100 pin 64 pin 48 pin
KV3x	100/120 MHz CM4 DSP + FPU	64–512 KB Flash	2 x 8-ch. 2 x 2-ch. FlexTimer	–	2 x 16-bit 1.2 Msps	2 x 12-bit	2 x ACMP with 6-bit DAC	–	100 pin 64 pin 48 pin 32 pin
KV1x	75 MHz CM0 + H/W DIV and SQRT	16–128 KB Flash	1 x 6-ch. 2 x 2-ch. FlexTimer	–	2 x 16-bit 1.2 Msps	1 x 12-bit	2 x ACMP with 6-bit DAC	1 x CAN	64 pin 48 pin 32 pin

Target Applications



- Ceiling FAN
- Pedestal FAN
- Exhaust FAN
- Heating Ventilation & Air Conditioning (HVAC)
- Home Appliances & Consumer
- Pumps & Motor Drives
- Sewing Machine
- Treadmills



We have our IDH partner at India who can support Design transfer in line to customer motor needs

Power Section - Bridge switch is ideal to BLDC FAN control

BRD1x60 Elektronika Sales support for completing design needs with KV1x NXP

https://motor-driver.power.com/sites/default/files/product-docs/bridgeswitch_family_datasheet.pdf

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Our value Added Services



TECHNICAL
SUPPORT



Vendor-Managed
Inventory



- ❖ World class warehouse facility / VMI & Logistic program

Key OEM - Dedicated warehouse allocation

- ❖ Complete regional resource

Accessibility / Flexibility Support

- ❖ Quote center - BOM Cost Optimization service

- ❖ USD & INR supply chain

- ❖ Design solution - FAE & Product team



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