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LPCXpresso Motor Control Kit

Price Information

Art.no: **EA-XPR-120 Buy**

The *LPCXpresso Motor Control Kit* makes it possible for you to get started with motor control prototyping immediately.
It is a platform for low voltage motor control based on NXP's MCUs. With this universal platform it is possible to control BLDC, BLAC, stepper and dual brushed DC motors.

This kit has been jointly developed with NXP.

This kit is compatible with LPCXpresso LPC1114 (included in kit), LPCXpresso LPC1343 and LPCXpresso LPC176x. It is **not** compatible with mbed.

Multimedia Presentation

Watch a short multimedia presenation introducing the LPCXpresso Motor Control Board.

| Overview | **Specification** | Related Products | Resources | Included in Kit | FAQ |

LPCXpresso Motor Control Board

Controller MCU
- Socket for LPCXpresso LPC1114 and LPC1343
- Socket for LPCXpresso LPC176x
- Socket for LPC1xxx in PLCC44
- Expansion connector for control by LPC1800/LPC4000/LPC2900 families, or other

Phase control
- 4 phases (based on NXP PMSN2R6-40YS NMOSFET), accessed via screw terminals
- Phase control support 100% duty cycle
- Voltage measurement (on three phases and virtual ground)
- Current measurement (in-phase on three phases and common low-side)
- Input current measurement, including over-current trip
- Break functionality
- Hall & QEI sensor inputs, connected via screw terminals
- Temp sensor
- 12-30V input voltage, 17A max current (max 300W output)
- On-board 15W power supply (+11V, +5V, +3.3V)

Communication Interfaces	• USB interface (must be supported by controlled MCU) • Ethernet interface (must be supported by controlled MCU) • CAN interface (must be supported by controlled MCU) • RS422/485 interface • UART-to-USB interface
User Interface	• 5-key joystick switch • 96x64 pixel **OLED**
Other	• Reset pushbutton • I2C-E2PROM • SWD/JTAG connector
Dimensions	200 x 150 mm
Power Supply Input	• 2.1mm input jack, or via screw terminals • 12-30V, 17A max

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