

DRV8833 dual motor driver carrier

Pololu · MPN 2130 · category: motor-driver

Canonical record: <https://partsgraph.ai/catalog/parts/pololu-drv8833-carrier>

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ELECTRICAL

RMS output current / bridge (IC rating): **1.5 A** · datasheet p.1
Current-chop reference voltage: **200 mV** · datasheet p.10
Low-power sleep mode: **Yes** · datasheet p.1
Paralleled continuous current: **2.4 A** · vendor page
Paralleled peak current: **4 A** · vendor page
Reverse-voltage protection: **Yes** · vendor page
Under-voltage lockout: **Yes** · vendor page
VM abs max (V): **11.8** · datasheet p.5
Digital input voltage, rec. max (V): **5.75** · datasheet p.5
MOSFET on-resistance, HS + LS (mΩ): **360** · datasheet p.1
Sleep-mode supply current, typ @ VM=5V (μA): **1.6** · datasheet p.6
UVLO threshold, max VM falling (V): **2.6** · datasheet p.6
Input pulldown, nSLEEP (kΩ): **500** · datasheet p.6
Overcurrent protection trip, typ (A): **3.3** · datasheet p.6
Thermal shutdown temperature, typ (°C): **160** · datasheet p.6

PERFORMANCE

Current-control PWM frequency, typ (kHz): **50** · datasheet p.6
Propagation delay INx to OUTx, typ (μs): **1.1** · datasheet p.6
Current-sense blanking time: **3.75 μs** · datasheet p.10

INTERFACE

Logic input compatibility: **3V- and 5V-compatible** · vendor page
Can drive one bipolar stepper motor: **one bipolar stepper motor** · vendor page
nSLEEP pulled high on carrier (enabled by default): **Yes** · vendor page
nFAULT open-drain output (needs external pull-up): **Yes** · vendor page

MECHANICAL

Driver IC package: **16-pin WQFN** · datasheet p.1
Current-sense pads sized for 1206 resistors: **1206** · vendor page
Included headers: **1x8-pin breakaway 0.1" male headers** · vendor page

COMPLIANCE

RoHS: **RoHS** · datasheet p.1
ESD rating, HBM (V): **±4000** · datasheet p.5

GENERAL

Channels: **dual** · vendor page
Motor supply range: **2.7–10.8 V** · datasheet p.1
Peak output current / channel: **2 A** · datasheet p.1
Continuous output current / channel: **1.2 A** · vendor page

INDICATIVE PRICES

Pololu: \$10.95 USD · as of 2026-08-22 · <https://www.pololu.com/product/2130>

Prices are indicative and dated, captured only from vendors' machine-stated markup. Availability is never claimed.

SOURCES — THE AUTHORITATIVE DOCUMENTS

TI DRV8833 datasheet: <https://www.ti.com/lit/ds/symlink/drv8833.pdf>

sha-256 3e400e333f08f1b93ec99a2d52a6af2a864e88462cc892282208548d9e9f0de4

Pololu product page: <https://www.pololu.com/product/2130>

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