

DESCRIPTION

The PT5103 is a monolithic 4-Channel CMOS H-bridge motor driver. It can drive one stepper motor, two DCM and two coils. There also are several other flexible system solutions left to be utilized. The current consumption can be hold at quite low level during standby or operation. And the active power supply voltage range is from 2.7~5.5V. So the device is ideal for portable and battery powered applications.

The PT5103 is available in QFN20 (3mm × 3mm) package. Performance is specified for -20°C to +75°C temperature range.

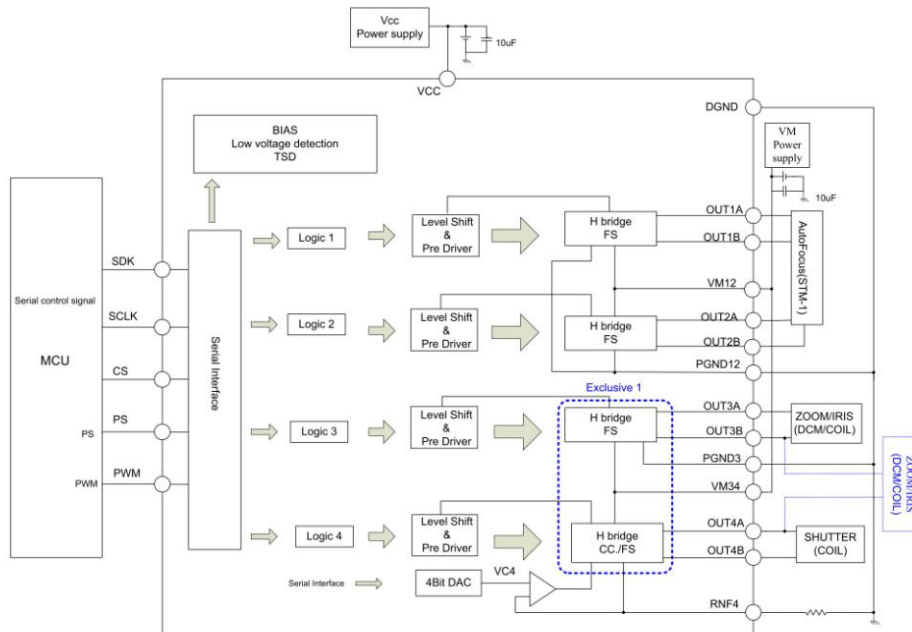
APPLICATION

- DSC

FEATURES

- Low on-resistance < 1.2Ω (typ.)
- Independent 4channel H-bridge, 3 full-swing drivers and 1 constant-current driver, all of those drivers with brake function.
- Versatile and flexible control mode
 - DC/stepper motor alternative, Full-swing /Constant-Current selected
- Special Exclusive Control mode optional
- Serial Control mode and Parallel Control mode
- Serial data input clock's frequency: 6.2MHz MAX
- Constant current set by DAC: 150mV~300mV 10mV/Bit Accuracy±5%
- Under voltage lockout circuit
 - Shut down the internal circuit at VCC=1.8V (Typ.) Hysterisis 0.2V
- Thermal shut down circuit
 - Shut down the internal circuit at 150°C Hysterisis 30°C
- Available in small package QFN, 20 pins (3 x 3mm)

BLOCK DIAGRAM



Notes:
1. FS=Full-swing
2. CC=Constant-Current