

## Portable consumer electronics spindle and VCM motor controller

Data Brief

### General features

- Register Based Architecture
- 3 wire serial port up to 50MHz
- Ultra-thin package

### Spindle driver

- 0.5A peak current drive capability
- Integrated power driver devices
- ST Smooth Drive<sup>®</sup> architecture
- Current sense with zero external components
- Inductive sense start-up support

### VCM driver

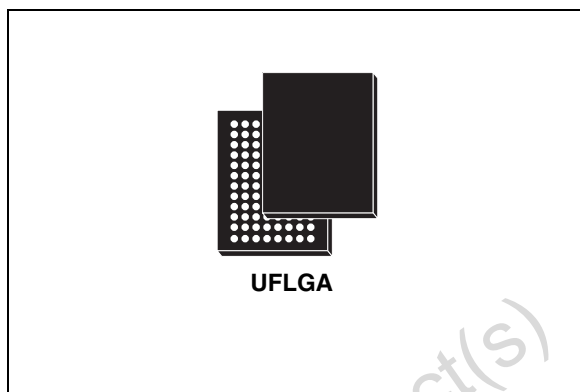
- 0.5A peak current drive capability
- Integrated power driver devices
- 14 Bit linear DAC for current command
- Ramp load/unload and emergency retract support

### Other functions

- Integrated positive and negative switching regulators
- Shock detect circuitry
- 10-bit ADC
- POR or reset with integrated delay
- Free fall interface

### Order code

Part number	Package	Packing
L7208	UFLGA	Tray



### Description

L7208 is available in an ultra-thin package and is optimized for 1.3 inch and sub-1.8 inch consumer equipment drives.

The spindle motor driver subsystem integrates all power FETs driven by ST's Smooth Drive<sup>®</sup> commutation technology.

The voice coil driver block includes the power FETs, emergency retract function as well as ramp load and unload capability.

Positive and negative regulators are integrated together with provision for shock sensing and free-fall detection.

Extremely low power consumption, in all modes of operation, is achieved by an optimized chip partitioning enabling extended battery life in consumer applications.

L7208 embeds a serial interface with a maximum speed of 50 MHz.

# 1 Revision history

Table 1. Document revision history

Date	Revision	Changes
21-Sep-2006	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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