

3.0V to 5.5V, 12/14/16Bit, Built-in Reference, Eight-Channel DAC

PRODUCT DESCRIPTION

The MS5228/MS5248/MS5268 is a 12/14/16bit eight-channel output voltage DAC. It integrates power-up reset circuit and optional internal reference. The interface adopts four-wire serial port mode, whose operating frequency can reach 40MHz and can be compatible with SPI, QSPI, DSP and Microwire serial ports. The output is connected to a class AB output amplifier. The MS5228/MS5248/MS526 has power-down mode, which can optimize operating power dissipation.

The MS5228 is available in TSSOP14, TSSOP16, QFN16 and WLCSP16 packages. The MS5248 is available in TSSOP14 and TSSOP16 packages. The MS5268 is available in TSSOP16, QFN16 and WLCSP16 packages.

FEATURES

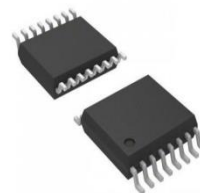
- MS5268: 16bit
- MS5248: 14bit
- MS5228: 12bit
- Internal Reference Voltage Temperature Drift: 10ppm/°C (Typ.)
- Internal Optional 1.25V, 2.5V Reference
- Compatible with SPI, QSPI, DSP and Microwire Serial Port
- Internal Power-up Reset
- REF Buffer
- Output Range is two times the Reference Voltage (Internal Reference)
- Output Range is one time the Reference Voltage (External Reference)
- Hardware, Software $\overline{\text{LDAC}}$ Function
- Hardware $\overline{\text{CLR}}$ Function
- Software Power-down
- Power Supply: 3.0V~5.5V

APPLICATIONS

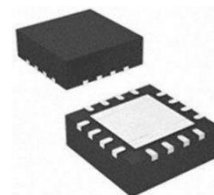
- Portable Device
- Industrial Process Control
- Medical and Mobile Control Device
- Programmable Voltage Source and Current Source



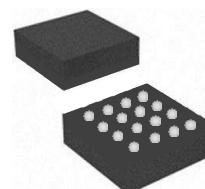
TSSOP14



TSSOP16



QFN16



WLCSP16

PRODUCT SPECIFICATION

Part Number	Package	Built-in Reference	Defaulted Power-up Output Voltage	Marking
*MS5228T1-1	TSSOP14	1.25V	0V	MS5228
*MS5228T1-2	TSSOP14	2.5V	0V	MS5228
*MS5228T2-1	TSSOP16	1.25V	0V	MS5228T
*MS5228T2-2	TSSOP16	2.5V	0V	MS5228T
*MS5228N-1	QFN16	1.25V	0V	MS5228N
*MS5228N-2	QFN16	2.5V	0V	MS5228N
*MS5228C-1	WLCSP16	1.25V	0V	MS5228C
*MS5228C-2	WLCSP16	2.5V	0V	MS5228C
*MS5248T1-1	TSSOP14	1.25V	0V	MS5248
*MS5248T1-2	TSSOP14	2.5V	0V	MS5248
*MS5248T2-1	TSSOP16	1.25V	0V	MS5248T
*MS5248T2-2	TSSOP16	2.5V	0V	MS5248T
MS5268T2-1	TSSOP16	1.25V	0V	MS5268T
MS5268T2-2	TSSOP16	2.5V	0V	MS5268T
MS5268T2-3	TSSOP16	2.5V	0.5×FSR	MS5268T
*MS5268N-1	QFN16	1.25V	0V	MS5268N
*MS5268N-2	QFN16	2.5V	0V	MS5268N
*MS5268N-3	QFN16	2.5V	0.5×FSR	MS5268N
MS5268C-1	WLCSP16	1.25V	0V	MS5268C
MS5268C-2	WLCSP16	2.5V	0V	MS5268C
MS5268C-3	WLCSP16	2.5V	0.5×FSR	MS5268C

*The package is not available temporarily. If necessary, please contact Hangzhou Ruimeng Sales Department Center.