

Automotive Voltage Regulators & System Basis Chip

Data brief



Description

The Sample kit provides a selection of Automotive qualified Power Management devices representative of ST offer, useful for evaluation and promotion.

Table 1. Device summary

Order code	Reference
SAMPLES-AUTOPMIC	Automotive Voltage Regulators & System Basis Chip

Features

- Immediate evaluation of Voltage Regulators, Power Management and Multichannel Power Management with a selection of samples.
- The kit includes
 - 10 samples
 - Printed card providing overview of product portfolio, key features, package description.

1 Overview

The Sample kit contains a selection of devices ranging from Linear LDO Voltage Regulators to highly integrated Power Management solutions.

ST offers a wide range of:

- Linear voltage regulators with features such as Enable, Watchdog, Reset and Early Warning functions as well as low quiescent current. Internal protection against short circuit and over temperature switches off the device in the case of extremely high power dissipation.
- Power management system ICs providing enhanced system power supply functionality, including various standby modes with programmable wake-up capability, as well as HS CAN and/or LIN transceiver and SPI interface. High- and low-side drivers and an embedded system protection increase the integration level.
- Multi-channel voltage regulators integrating dc-dc converters with a switching frequency up to 2.4 MHz and linear LDO regulators. Other available features include battery compatibility, high side drivers, voltage supervisors, independent enables and supplies, synchronization capability, watchdog and reset.

Table 2. Main characteristics

Device	Product Family	Main characteristics	Package	No. of samples
L4995K	Voltage Regulator	$V_{OUT} : 5\text{ V}$, $I_{OUT} : 500\text{ mA}$	PowerSSO-24	1
L5150BN	Voltage Regulator	$V_{OUT} : 5\text{ V}$, $I_{OUT} : 150\text{ mA}$	SOT-223	2
L5300GJ	Voltage Regulator	$V_{OUT} : 5\text{ V}$, $I_{OUT} : 300\text{ mA}$	PowerSSO-12	2
L99PM60J	Power Management	LIN $V_{OUT} : 5\text{ V}$ LDO $I_{OUT} : 100\text{ mA}$ High and Low-side drivers	PowerSSO-16	2
L99PM62GXP	Power Management	LIN and HS-CAN $V_{OUT} : 5\text{ V}$ LDO 1 $I_{OUT} : 250\text{ mA}$ LDO 2 $I_{OUT} : 100\text{ mA}$ High and Low-side drivers	PowerSSO-36	1
L5963	Multichannel Power Management	Buck 1 $I_{OUT} : 2.5\text{ A}$ Buck 2 $I_{OUT} : 3\text{ A}$ LDO $I_{OUT} : 250\text{ mA}$ High-side driver	PowerSSO-36	1
			VQFPN-48	1

2 Revision history

Table 3. Document revision history

Date	Revision	Changes
21-Jul-2017	1	Initial release.

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