

## 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<br>$V_{OUT} : 5\text{ V}$<br>LDO $I_{OUT} : 100\text{ mA}$<br>High and Low-side drivers   | PowerSSO-16 | 2              |
| L99PM62GXP | Power Management              | LIN and HS-CAN<br>$V_{OUT} : 5\text{ V}$<br>LDO 1 $I_{OUT} : 250\text{ mA}$<br>LDO 2 $I_{OUT} : 100\text{ mA}$<br>High and Low-side drivers | PowerSSO-36 | 1              |
| L5963      | Multichannel Power Management | Buck 1 $I_{OUT} : 2.5\text{ A}$<br>Buck 2 $I_{OUT} : 3\text{ A}$<br>LDO $I_{OUT} : 250\text{ mA}$<br>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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