

ASIC 0.57um Automotive 64-Pin LQFP Tray**Manufacturer:** [STMicroelectronics, Inc](#)**Package/Case:** QFP64**Product Type:** Programmable Logic ICs**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

L9658 is intended to deploy up to 8 squibs and to interface up to 4 satellites. 2 satellite interfaces can be used to interface Hall sensors. Squib drivers are sized to deploy 1.2 A minimum for 2 ms minimum during load dump and 1.75 A minimum for 1ms minimum during load dump. Diagnostic of squib driver and squib resistance measurement is controlled by micro controller. Satellite interfaces support Manchester decoder with variable bit rate.

Key Features

8 deployment drivers sized to deliver 1.2 A (min) for 2 ms (min) and 1.75 A (min) for 1 ms (min)

Independently controlled high-side and low-side MOS for diagnosis

Analog output available for resistance

Squib short to ground, short to battery and MOS diagnostic available on SPI register

Capability to deploy the squib with 1.2 A (min) or 1.75 A under 35 V load-dump condition and the low side MOS is shorted to ground

Capability to deploy the squib with 1.2 A (min) at 6.9 V VRES and 1.75 A at 12 V VRES

Interface with 4 satellite sensors

Programmable independent current trip points for each satellite channel

Support Manchester protocol for satellite sensors

Supports for variable bit rate detection

Independent current limit and fault timer shutdown protection for each satellite output

Short to ground and short to battery detection and reporting for each satellite channel

5.5 MHz SPI interface

Satellite message error detection

Hall effect sensor support on satellite channels 3 and 4.

Low voltage internal reset

2 kV ESD capability on all pins

Package: 64 leads LQFP

Technology: ST proprietary BCD5s (0.57 μ m)

Recommended For You

L9613B

STMicroelectronics, Inc

SOP8

L9654

STMicroelectronics, Inc

QFP

L9660

STMicroelectronics, Inc

QFP

L9659

STMicroelectronics, Inc

QFP64

E-L9637D

STMicroelectronics, Inc

SOIC-8

L9613B013TR

STMicroelectronics, Inc

SOP8

E-L9637D013TR

STMicroelectronics, Inc

SOP-8

L9780

STMicroelectronics, Inc

LQFP-48

L9663

STMicroelectronics, Inc

QFP

L9658TR

STMicroelectronics, Inc

QFP

L9659TR

STMicroelectronics, Inc

QFP64

L9660TR

STMicroelectronics, Inc

LQFP64

L9662TR

STMicroelectronics, Inc

LQFP-64

L9780TR

STMicroelectronics, Inc

LQFP48

L9663-TR-1

STMicroelectronics, Inc

VQFN28