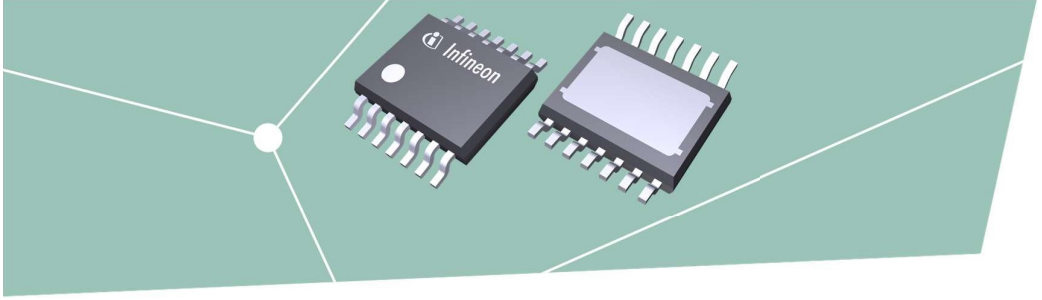


Product brief

TLF4277-2EP

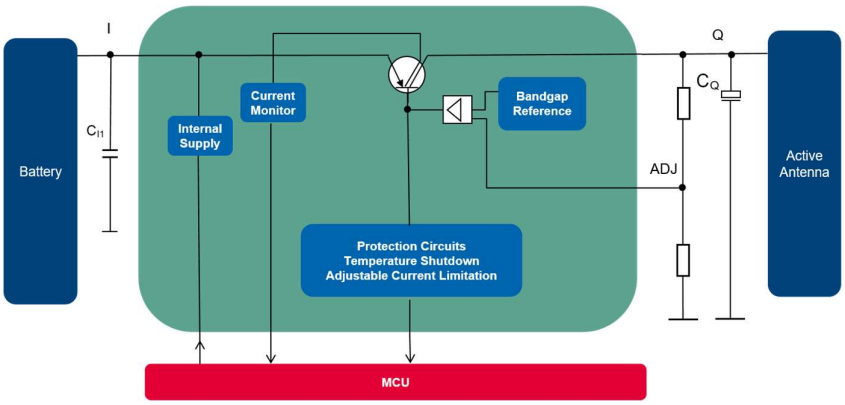
Active antenna supply. Linear voltage regulator with integrated current sense.

The TLF4277-2EP is the ideal companion IC to supply critical applications requiring tight current limitation and diagnostics. It provides monitoring and protection features as well as a high side power switch. The TLF4277-2EP is a monolithic integrated low dropout voltage regulator that can supply loads up to 400 mA.

The adjustable output voltage makes the TLF4277-2EP capable of supplying the majority of standard active antennas such as FM/AM, DAB, XM and SIRIUS:

For an input voltage up to 40 V the TLF4277-2EP provides an adjustable output voltage from 3 V to 16 V. The integrated current monitor function is a unique feature that provides diagnosis and system protection functionality. Fault conditions such as overtemperature and output overvoltage are monitored and indicated at the current sense output. The maximum output current limit of the device is adjustable to provide additional protection to the connected load.
Via the enable function the IC can be disabled to lower the power consumption.
The PG-TSDSO-14 package provides an enhanced thermal performance within an SO8 body size.

Block Diagram



Key features

- Integrated current monitor
- Overvoltage detection, overtemperature detection and overcurrent detection
- Adjustable output voltage
- Output current up to 400 mA
- Adjustable output current limitation
- Very low current consumption
- Very low dropout voltage
- Stable with ceramic output capacitor of 1 µF
- Wide input voltage range up to 40 V
- Reverse polarity protection
- Short circuit protection
- Overtemperature shutdown
- Green Product (RoHS compliant)

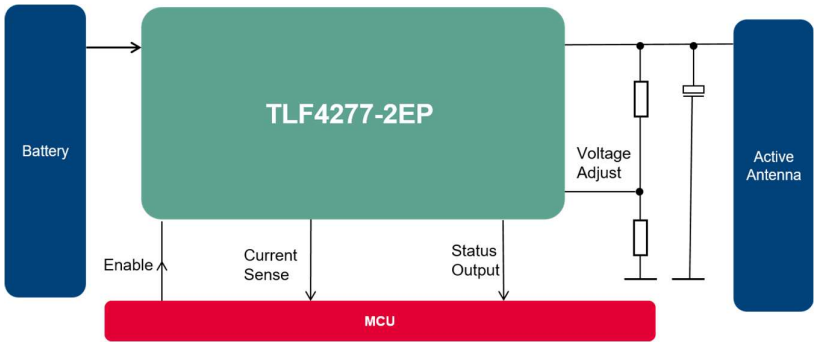
Key benefits

- Robust protection features
- Wide input operation and temperature range
- Integrated current monitor

Application specific
RoHS
AEC Qualified

TLF4277-2EP

Active antenna supply. Linear voltage regulator with integrated current sense.



Key applications

- Automotive sensor supply
- Automotive telematics systems
- Camera and radar supply

Product summary

Sales name	OPN	Package
TLF4277-2EP	TLF42772EPXUMA1	PG-TSDSO-14

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