![Infineon technologies logo]

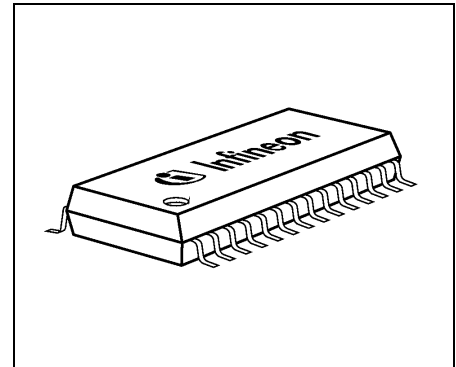**Airbag <u>Sat</u>ellite <u>R</u>eceive <u>IC</u> (SatRIC)**   **TLE 7719**

Overview

Features

- Receiver for current modulated data from 4 satellite channels

- Max. data rate 125 kBaud

- Decoding of 2 Manchester Protocols, programmable data length (up to 16 bit)

- Channel configuration in pairs (Data length, Code Type)

- Programmable sample clock generator with two clock options: internal system clock (1 MHz) or external clock line (up to 2 MHz)

- Supply of satellite channels via 4 independent +10.0 V voltage regulators

- Asynchronous and synchronous (automatic sync pulse generation) data transmission modes

- Logic operating voltage 5.0 V

- 2 Digital outputs for voltage-converted received satellite signals

- 16-bit - SPI Interface with Daisy chain capability

- Burst Read function allows fast readout of all four received satellite data

- Constant current threshold level over wide range of satellite quiescent current

- Current limitation to prevent device destruction in case of satellite output shorted to ground

- Leakage detection to GND or Supply Voltage; low line current detection

- Over-temperature shutdown for all channels

- Analogue output buffer for measurements via analog input of a μC

Type	Package
TLE 7719	P-TSSOP-28