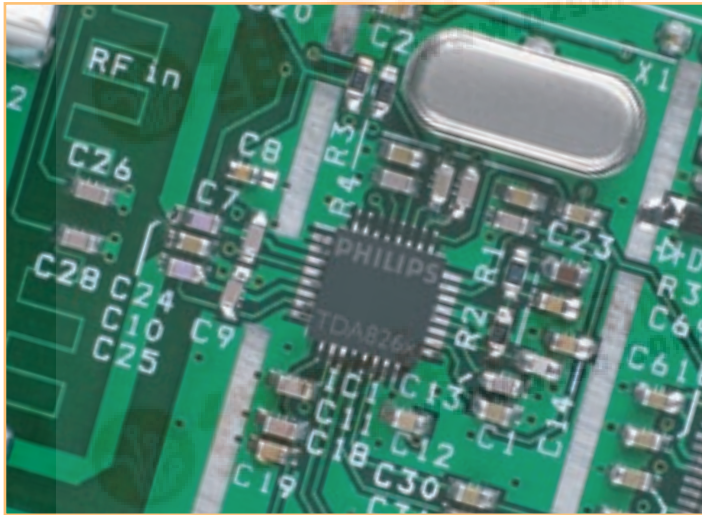


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TDA8262/63

The TDA8262/63 silicon tuner ICs enable easy implementation of digital satellite reception, offering significant reductions in external component count to provide manufacturers with reductions in overall BOM for new STB, Personal Video Recorders (PVR), PC TV-card and digital TV set designs.



Applications

- Direct Broadcast Satellite (DBS) demodulation
- Digital Video Broadcasting Satellite (DVB-S) demodulation
- BS digital (ISDB-S) demodulation

Key features

- Direct conversion demodulation for QPSK and 8PSK (Zero IF)
- 950 to 2,175 MHz frequency range
- +3.3 V DC supply voltage (no 5 V or 30 V supply required)
- Low power (<600mW)
- Low phase noise fully integrated oscillator
- Cost optimized application
- High range input level
 - -70 to 0 dBm @ 75 Ω input impedance
- Low noise RF input (integrated LNA)
- High AGC range with high AGC linearity
- Optimized interface with Philips' digital satellite demodulators TDA10086 (single) and TDA10093 (double)
- 32-pin low thermal resistance package, small size

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TDA8262/63 high-performance silicon tuner solutions

Semiconductors

Philips' new silicon tuner solution offers a quick, simple and cost-effective implementation for front-end digital satellite reception. It enables digital STB, TV set and PC TV-card manufacturers to quickly develop applications by including all the complex frequency tuner technology in a single package used as a tuner on board. This simplification of the front-end part significantly reduces overall BOM (Bill Of Materials).

The TDA8262/63 silicon tuners are DVB-S/DBS (Digital Video Broadcast - Satellite / Digital Broadcast Satellite) compliant and fulfill all worldwide standards in use for satellite reception. They feature front-end receivers for direct conversion (zero-IF) in a wide range of frequency to cover the American, European and Asian satellite bands – as well as the SMA-TV US standard.

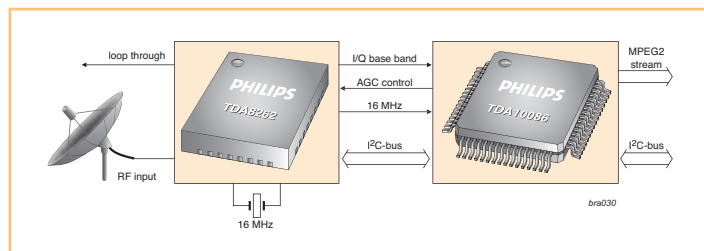
The fully integrated TDA8262/63 silicon tuners are a superior technical solution for digital satellite TV reception. The direct conversion concept replaces all traditional IF filtering and intermediate conversion techniques – simplifying the entire tuning process and the IC board design. TDA8262/63 are also much more compact than other tuner solutions (with a 5 mm x 5 mm package), while using far less power and providing a superior performance.

PHILIPS

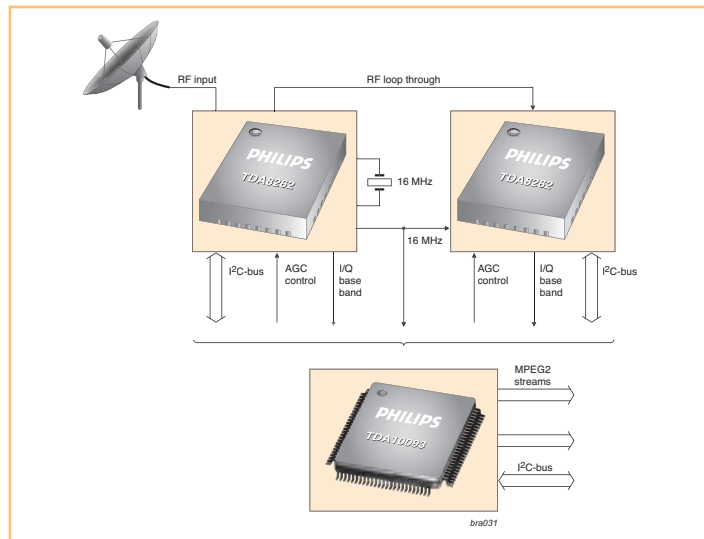


TDA8262/63

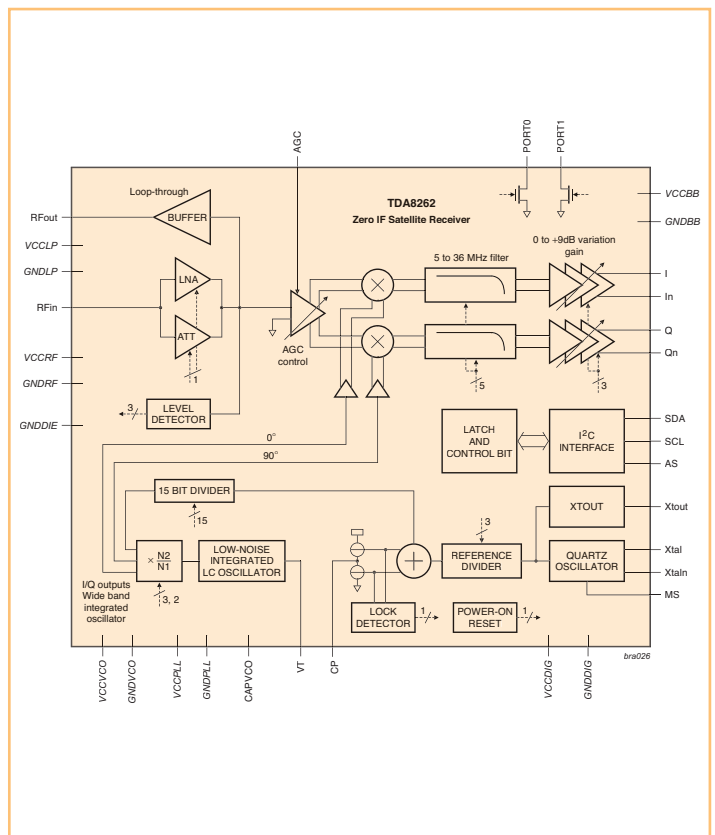
TDA8262/63 high-performance silicon tuner solutions



Single Receiver



Double Receiver



TDA8262 Zero IF Satellite Receiver

Philips Semiconductors

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