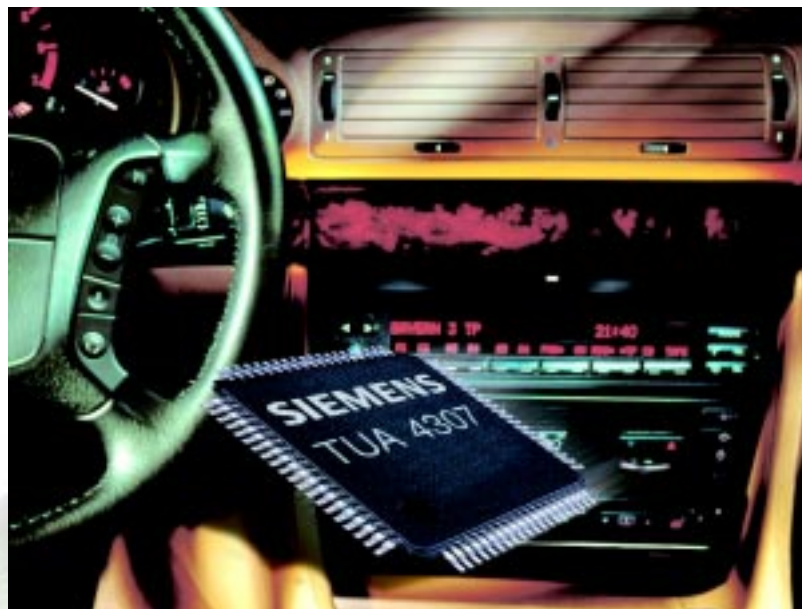


## Product Brief

# TUA 4307

### The ONE Chip Car Radio IC

The TUA 4307 is an one chip car radio front end IC consisting of an AM/FM receiver, an AM up down converter, an AGC amplifier, a FM IF limiter amplifier, AM and FM demodulators, and a stereodecoder with noise blanker. The highlight of this IC is the AM/FM station detector.



#### Potential Application

- Car radios

#### Features

##### AM/FM-Receiver

- High flexibility with external preamplifier
- Only one 2-pin-LO at 100 MHz for AM and FM
- Strictly symmetrical RF parts

##### FM-Receiver

- High input/output 3rd order interceptpoint

##### FM-IF Demodulator

- Multipath detector with analog output

##### Stereodecoder

- Analog mono/stereo blend control
- Adjacent channel noise suppression

##### AM Mode

- Fast AM search tuning stop

##### Add on to TUA 4306

- FM station detector with S curve criterion and adjustable fieldstrength threshold (output combined with AM)

- FM IF counter output with request function pin
- Adjustment free stereodecoder VCO with 912 kHz ceramic resonator
- AM station detector with adjustable fieldstrength threshold (output combined with FM)
- Output for AM stereo decoder (CQAM)

#### Price Projection

- Standard price list
- For Key and Focus accounts or high volumes you may contact your regional Siemens sales partner

#### Development and Support Tools

- Application Board TUA 4307

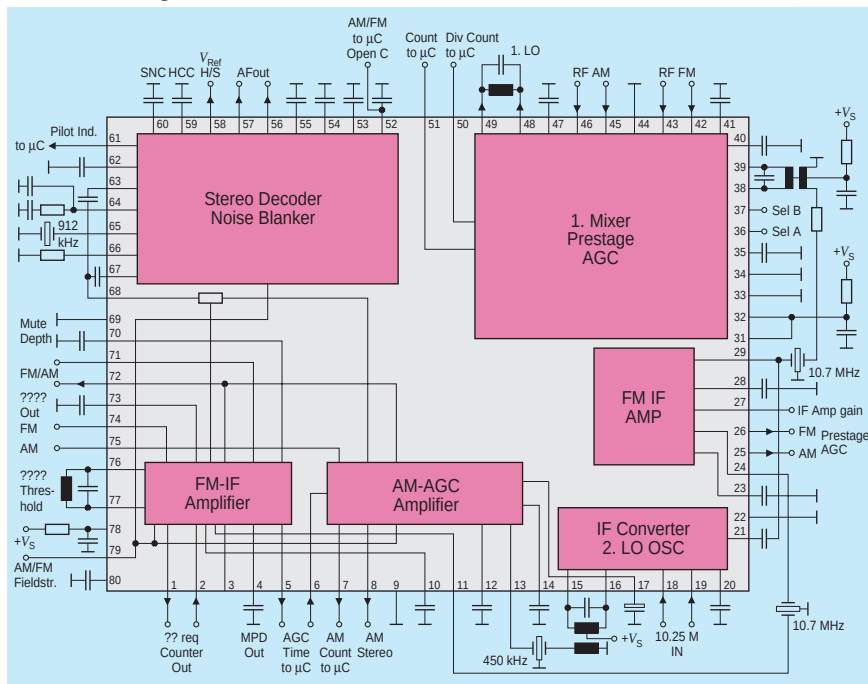
| Features                                              | Benefits                        |
|-------------------------------------------------------|---------------------------------|
| AM UP/DOWN conversion concept                         | Alignment free                  |
| Flexible for high-performance / low-cost applications | One chip for all radios         |
| Reduced number of adjustments                         | Cost savings, high reliability  |
| Reduced peripheral count                              |                                 |
| MW/SW receiver                                        | New markets (e.g. Saudi Arabia) |

#### Packing

| Type     | Ordering Code | Package     |
|----------|---------------|-------------|
| TUA 4307 | Q66000-S-T    | P-MQFP-80-1 |

| Documentation           | Date of Issue/Version |
|-------------------------|-----------------------|
| Specification           | 9/98                  |
| Articles/Press releases | tbd.                  |

## Block Diagram



## Availability

**ES available;  
Product development release**

|                                                                                                                                       |                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(A) Wien</b><br>☎ (+43) 1-1707-356 11                                                                                              | <b>(IRL) Dublin 4</b><br>☎ (+353) 1-603 23 42                                                                                                            |
| <b>(AUS) Richmond (Melbourne), Vic. 3121</b><br>☎ (+61) 3-9420 71 11                                                                  | <b>(J) Tokyo 141-0022</b><br>☎ (+81) 3-5449 64 11                                                                                                        |
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| <b>(GR) Amaroussio/Athen</b><br>☎ (+30) 1-686 41 11                                                                                   | <b>(USA) Cupertino, CA 95014</b><br>☎ (+1) 408-777 45 00<br>Cupertino, CA 95014<br>☎ (+1) 408-257 79 10<br>Iselin, NJ 08830-2770<br>☎ (+1) 732-906 43 00 |
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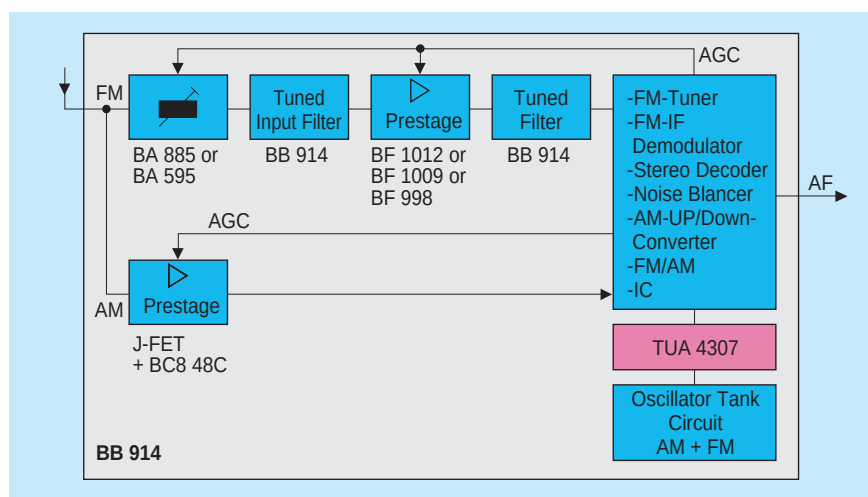
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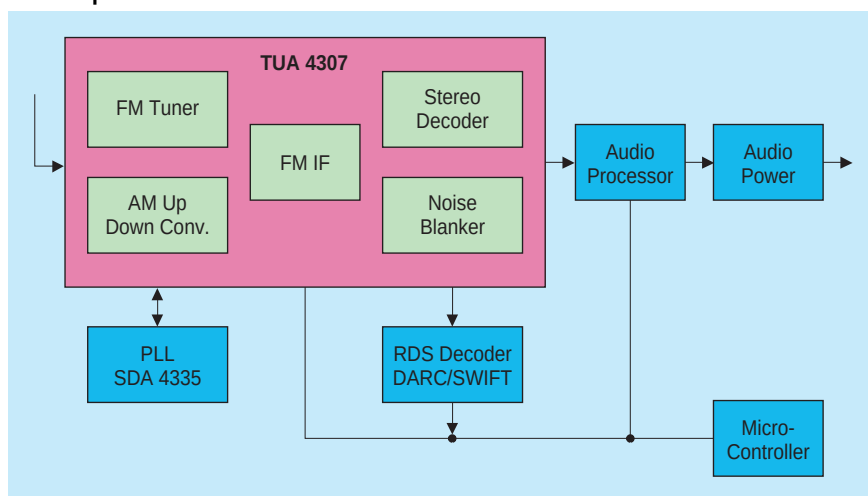
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## RF Semiconductors in Car Radio AM/FM Receivers



## 1-Chip Car Radio IC TUA 4307



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