

Product Brief TUA 4306

The ONE Chip Car Radio IC

The TUA 4306 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.

Potential Application

- Car radios

Features

AM/FM-Receiver

- High flexibility with external preamplifier
- Separate mixers for AM and FM mode
- Only one 2-pin-LO at 100 MHz for AM and FM
- Strictly symmetrical RF parts
- Improved low phase noise
- FM/AM field strength output combined

FM-Receiver

- Integrated AGC generation for PIN Diodes and MOSFETs
- High level mixer input
- High input/output 3rd order interceptpoint

FM-IF Demodulator

- Multipath detector with analog output
- High linear fieldstrength output

Stereodecoder

- Adjustment free oscillator with ceramic resonator (456 kHz)
- Analog mono/stereo blend control

- Pilot canceller (19 kHz)
- Adjacent channel noise suppression
- Interference noise detector and noise blanking at audio outputs

AM Mode

- Fast AM search tuning stop feature

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 4306

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)

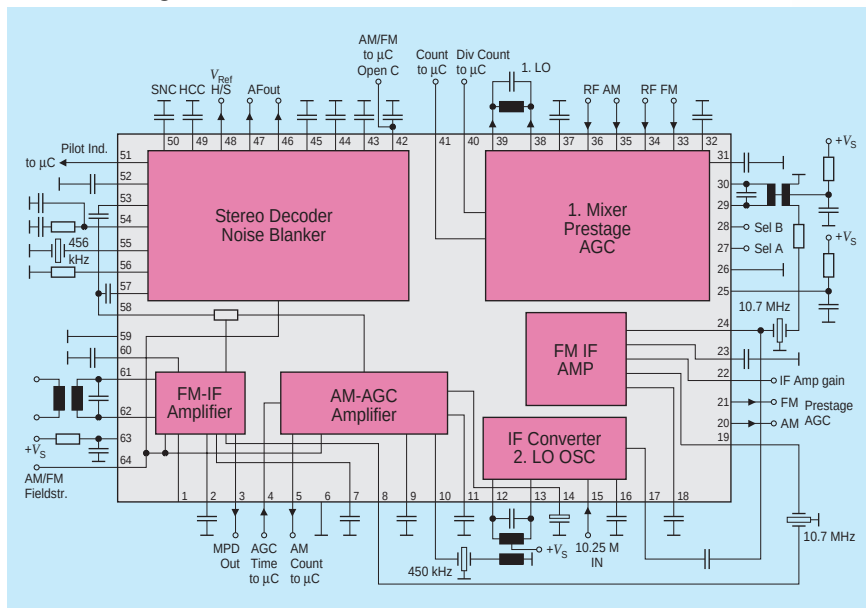
Packing

Type	Ordering Code	Package
TUA 4306	Q67037-A1009	P-MQFP-64-1

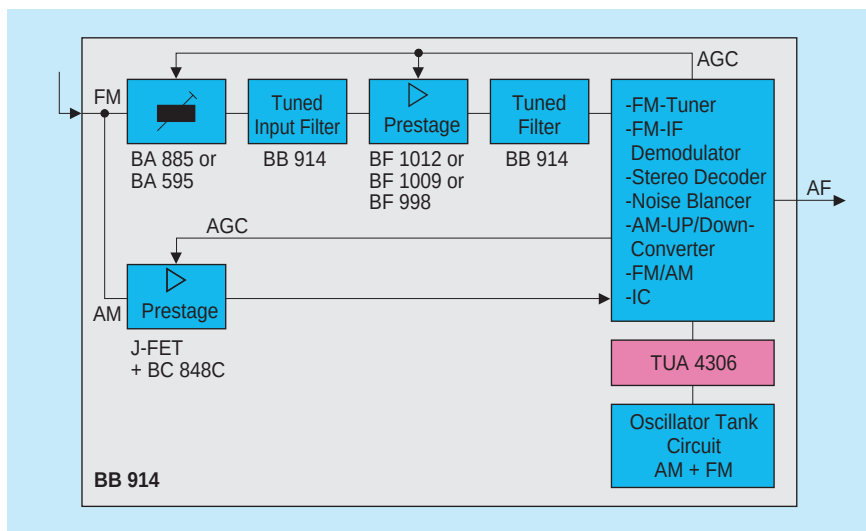
Documentation	Date of Issue/Version
Specification	7/98
Application	2/98
Articles/Press releases	tbd.



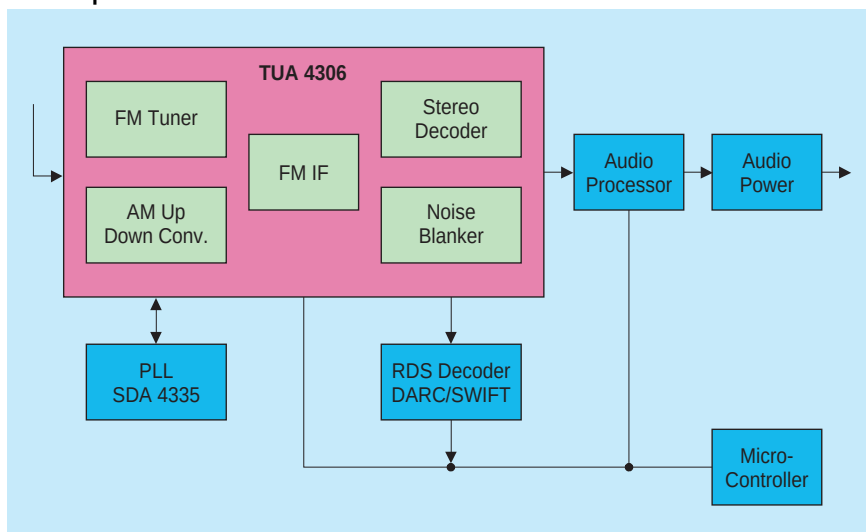
Block Diagram



RF Semiconductors in Car Radio AM/FM Receivers



1-Chip Car Radio IC TUA 4306



Availability

Samples available;
Product development release

A Wien	☎ (+43) 1-1707-356 11	IRL Dublin 4	☎ (+353) 1-603 23 42
AUS Richmond (Melbourne), Vic. 3121	☎ (+61) 3-9420 71 11	J Tokyo 141-0022	☎ (+81) 3-5449 64 11
B Brussel/Bruxelles	☎ (+32) 2-536 23 48	MAL Penang	☎ (+60) 4-644 99 75
BR São Paulo-SP	☎ (+55) 11-836 23 77/26 84	N Oslo 5	☎ (+47) 22-63 30 00
CDN Mississauga, Ontario L5T 1P2	☎ (+1) 905-819 80 00	NL Den Haag	☎ (+31) 70-333 24 29
CH Zürich	☎ (+41) 1-495 30 65	NZ Auckland	☎ (+64) 9-520 30 33
D Düsseldorf	☎ (+49) 211-399 15 51	P Amadora	☎ (+35) 1-417 00 11
Laatzten (Hannover)	☎ (+49) 511-877 27 06	PK Islamabad	☎ (+92) 51-21 22 00
Nürnberg	☎ (+49) 911-654 76 22	PL Warszawa	☎ (+48) 2-670 91 51
Stuttgart	☎ (+49) 711-137 33 14	RC Taipei	☎ (+886) 2-2773 66 06
München	☎ (+49) 89-9221 40 86	ROK Seoul 135-080	☎ (+82) 2-527 77 00
DK Ballerup	☎ (+45) 4477-44 77	RUS Moskva	☎ (+7) 095-237-64 76, -69 11
E Tres Cantos-Madrid	☎ (+34) 91-514 80 00	S Kista	☎ (+46) 8-703 35 00
F Saint-Denis CEDEX 2	☎ (+33) 1-4922 31 00	SGP Singapore 349 253	☎ (+65) 840 06 10
FIN Espoo (Helsinki)	☎ (+35) 9-5105 1	TR Findikli (Istanbul)	☎ (+90) 212-251 09 00
GB Berkshire RG 12 8FZ	☎ (+44) 1344-39 60 00	USA Cupertino, CA 95014	☎ (+1) 408-777 45 00
GR Amaroussio/Athen	☎ (+30) 1-686 41 11	Cupertino, CA 95014	☎ (+1) 408-257 79 10
HK Hong Kong	☎ (+852) 2832 05 00	Iselin, NJ 08830-2770	☎ (+1) 732-906 43 00
I Milano	☎ (+39) 02-6676-1	VRC Beijing	☎ (+86) 10-6857 90 -06, -07
IND New Delhi 110 014	☎ (+91) 11-461 74 47	Shanghai 200003	☎ (+86) 21-6361 26 18/19
Bangalore 560 001	☎ (+91) 80-227 98 74	ZA Halfway House 1685	☎ (+27) 11-652-20 00, -27 00
Mumbai	☎ (+91) 22-496 21 99		

How to reach us:

<http://www.siemens.de/semiconductor>

© Siemens AG 1998.

All Rights Reserved.

Please note that any information contained in this publication may be subject to change. Siemens reserves the right to make changes to or to discontinue any product or service identified in this publication without notice.

Please contact our regional offices to receive the latest version of the relevant information to verify, before placing orders, that the information being relied upon is current.

All brand or product names, hardware or software names are trademarks of their respective companies or organizations.

Published by Semiconductor Group

Siemens Aktiengesellschaft

Ordering No. B168-H7385-X-X-7600
Printed in Germany
PS 11983.