

Product Brief

TDA 5100

ASK/FSK Transmitter



The IC is a single chip ASK/FSK transmitter for the frequency bands 868-870 MHz and 433-435 MHz. The transmitter offers a high level of integration and needs only a few external components.

The device contains a fully integrated VCO, a PLL synthesizer, a crystal oscillator with a divided clock output to drive a microcontroller and a power amplifier to drive a loop antenna. Additionally

there is a power down feature to save battery life and a low voltage sensor which can be used to disable the power amplifier. The IC can be used for both ASK and FSK modulation.

Potential Application

- Keyless entry systems
- Remote control systems
- Alarm systems
- Communication systems

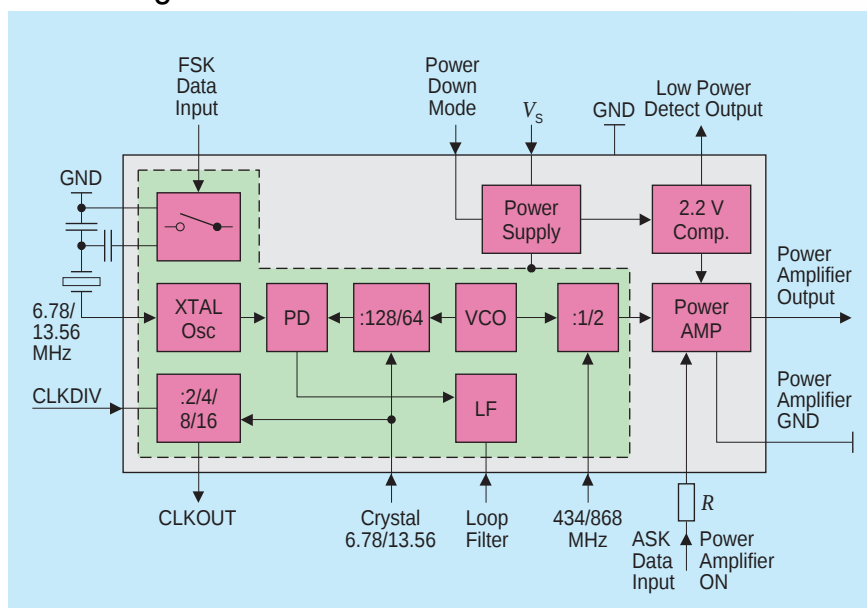
Features

- Low supply current
- Supply voltage range 2.1-4 V
- Power down mode
- Fully integrated VCO, PLL and power amplifier
- Switchable frequency range 868-870 / 433-435 MHz
- Selectable crystal oscillator 6.78 / 13.56 MHz
- Programmable divided clock output for μ C
- Low external component count
- ASK/FSK modulation

Packing

Type	Ordering Code	Package
TDA 5100	Q67036-A1070	P-TSSOP-16

Block Diagram



Price Projection

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

Documentation	Date of Issue/Version
Specification	2/98
Articles/Press Releases – Components	4/98

Development and Support Tools

- Evaluation Board TDA 5100
- I²C-Bus Interface and DOS or Windows 3.11 control software

Availability

**ES available;
Product development release 04/99**

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 Laatzten (Hannover) ☎ (+49) 511-877 27 06 Nürnberg ☎ (+49) 911-654 76 22 Stuttgart ☎ (+49) 711-137 33 14 München ☎ (+49) 89-9221 40 86	P Amadora ☎ (+35) 1-417 00 11
DK Ballerup ☎ (+45) 4477-44 77	PK Islamabad ☎ (+92) 51-21 22 00
E Tres Cantos-Madrid ☎ (+34) 91-514 80 00	PL Warszawa ☎ (+48) 2-670 91 51
F Saint-Denis CEDEX 2 ☎ (+33) 1-4922 31 00	RC Taipei ☎ (+886) 2-2773 66 00
FIN Espoo (Helsinki) ☎ (+35) 9-5105 1	ROK Seoul 135-080 ☎ (+82) 2-527 77 00
GB Berkshire RG 12 8FZ ☎ (+44) 1344-39 60 00	RUS Moskva ☎ (+7) 095-237-64 76, -69 11
GR Amaroussio/Athen ☎ (+30) 1-686 41 11	S Kista ☎ (+46) 8-703 35 00
HK Hong Kong ☎ (+852) 2832 05 00	SGP Singapore 349 253 ☎ (+65) 840 06 10
I Milano ☎ (+39) 02-6676-1	TR Findikli (Istanbul) ☎ (+90) 212-251 09 00
IND New Delhi 110 014 ☎ (+91) 11-461 74 47 Bangalore 560 001 ☎ (+91) 80-227 98 74 Mumbai ☎ (+91) 22-496 21 99	USA Cupertino, CA 95014 ☎ (+1) 408-777 45 00 Cupertino, CA 95014 ☎ (+1) 408-257 79 10 Iselin, NJ 08830-2770 ☎ (+1) 732-906 43 00
	VRC Beijing ☎ (+86) 10-6857 90 -06, -07 Shanghai 200003 ☎ (+86) 21-6361 26 18/19
	ZA Halfway House 1685 ☎ (+27) 11-652-20 00, -27 00

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-H7388-X-X-7600
Printed in Germany
PS 11983.