

KNX/ EIB TRANSCEIVER

E981.03

PRODUCTION DATA - JUL 3, 2012



Key Features

- ▶ Certified with KNX® TP1-256 application
- ▶ Autonomous MAC and individual physical address
- ▶ Included protocol handling
- ▶ Included power supply for bus powered applications with selectable bus current limitation

KNX® Interface

- ▶ Extended frames with up to 254 byte payload
- ▶ Analog Mode (direct RX / TX interface)
- ▶ Autonomous Telegram trigger
- ▶ Alarm Telegram
- ▶ Autonomous poll data transfer

UART host interface

- ▶ Supports 9.6 k, 19.2 k, 115.2 k
- ▶ 9 bit mode for easy data stream interpretation
- ▶ Optional CRC (at 19.2kBd and 115.2 kBd)

SPI™ host interface

- ▶ if not used 4 GPIOs are available

Included power supplies:

- ▶ 20V supply, up to 20mA
- ▶ 3.3V (50mA) / 5V (30mA) DC/DC converter

General Description

The E981.03 combines the TP1-256 physical layer, the communication controller and two DC supply outputs for bus powered applications. The internal power management assures **KNX** conformance under all load conditions.

The connection between the E981.03 and the host processor can be established by either UART or SPI compatible interfaces, or in direct Analog Mode.

Applications

- ▶ Sensors, actuators, routers, gateways, Bus-powered or externally supplied
- ▶ Security applications

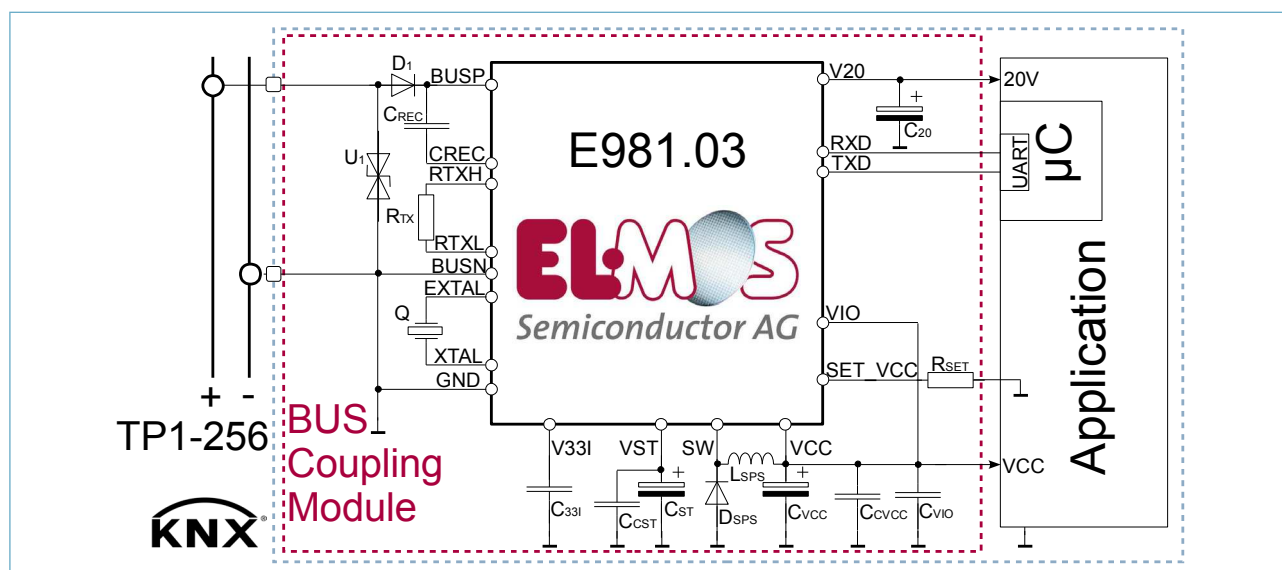
Ordering Information

Product ID	Temp Range	Package
E981.03	-25°C to +85°C	QFN32L7

KNX is a Konnex Association registered trademark.

SPI™ is a Motorola Inc. trademark.

Typical Applications Circuit



ELMOS Semiconductor AG reserves the right to change the detail specifications as may be required to permit improvements in the design of its products.

ELMOS Support 07/2012

Headquarters

ELMOS Semiconductor AG

Heinrich-Hertz-Str. 1
44227 Dortmund (Germany)
Phone: +49 (0) 231 / 75 49-100
Fax: +49 (0) 231 / 75 49-149
sales@elmos.com
www.elmos.com

Regional Sales and Application Support Office Munich

ELMOS Semiconductor AG

Am Geflügelhof 12
85716 Unterschleißheim/Eching (Germany)
Phone: +49 (0) 89 / 31 83 70-0
Fax: +49 (0) 89 / 31 83 70-31
sales-elmuc@elmos.com

Sales and Application Support Office North America

ELMOS NA. Inc.

32255 Northwestern Highway, Suite 45
Farmington Hills, MI 48334 (United States)
Phone: +1 (0) 248 / 8 65 32 00
elna-sales@elmosna.com

Sales and Application Support Office Korea and Japan

ELMOS Korea

Suite 1907
Park View Office Tower
6 Jeongja-dong, Bundang-gu, Seongnam-si, Kyonggi-do,
463-863 Republic of Korea
Phone: +82 (0)31 / 7 14 11 31
jin-koo.lee@elmos.com

Sales and Application Support Office China

ELMOS Semiconductor Technology (Shanghai) Co., Ltd.

Unit London, 1BF GC Tower,
No. 1088 YuanShen Road,
Pudong New District,
Shanghai, PR China, 200122
Phone: +86 (0) 21 / 5178 5178
sales_china@elmos.com

中国地区销售与应用支持

艾尔默斯半导体技术(上海)有限公司
中国上海浦东新区源深路1088号
葛洲坝大厦1B楼伦敦单元, 200122
电话: +86 (0) 21 / 5178 5178
sales_china@elmos.com

Sales and Application Support Office Singapore

ELMOS Semiconductor Singapore Pte Ltd.

60 Alexandra Terrace
#09-31 The Comtech (Singapore 118502)
Phone: +65 (0) 663 / 5 11 41
Fax: +65 (0) 663 / 5 11 40
sales@elmos.com

Note ELMOS Semiconductor AG (below ELMOS) reserves the right to make changes to the product contained in this publication without notice. ELMOS assumes no responsibility for the use of any circuits described herein, conveys no licence under any patent or other right, and makes no representation that the circuits are free of patent infringement. While the information in this publication has been checked, no responsibility, however, is assumed for inaccuracies. ELMOS does not recommend the use of any of its products in life support applications where the failure or malfunction of the product can reasonably be expected to cause failure of a life-support system or to significantly affect its safety or effectiveness. Products are not authorized for use in such applications.

Copyright © 2012 ELMOS Reproduction, in part or whole, without the prior written consent of ELMOS, is prohibited.