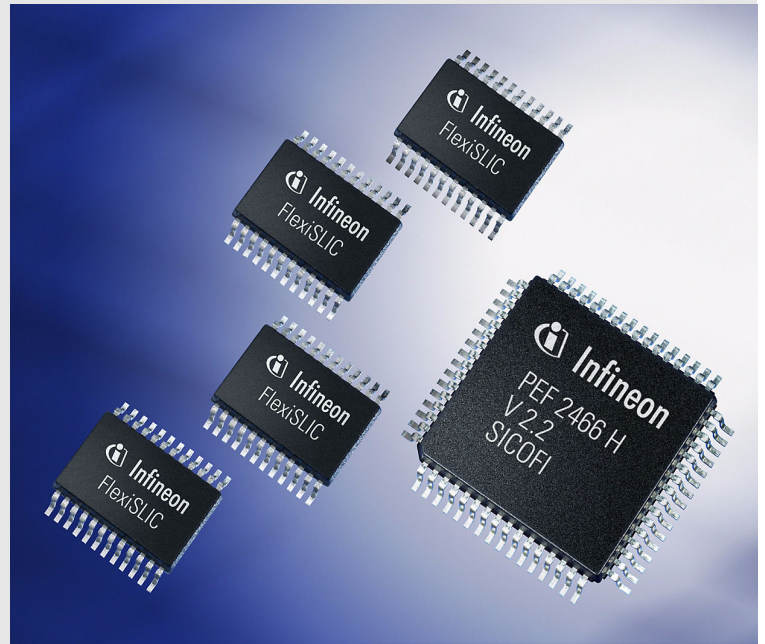


The SICOFI-4 $\mu$ C in combination with a member of the FlexiSLIC™ family enables building cost effective linecards with centralized ringing.

The FlexiSLIC™ offers pin and control compatible devices specialized for customer requirements, while minimizing board space and reducing the number of external components.

With seamless integration between the SICOFI-4 $\mu$ C and the FlexiSLIC™, and with fully programmable analog line functions, the SICOFI-4 $\mu$ C delivers country independent solutions with a single PCB design.

Generic linecards designed with the SICOFI-4 $\mu$ C and the FlexiSLIC™ give system designers significant economies of scale since one card is easily adapted to many different markets and applications.



## Analog Linecard

### Applications

- Analog linecards with centralized ring generator for balanced and unbalanced ringing

### Features

- Country independent linecard design with a single PCB layout
- 4-channel Codec
- Three SLIC versions with the same pin out
- Compliant to ITU-T Q.552, G.712, LSSGR
- Software programmable gains frequency response, trans-hybrid balance, and impedance matching

- Metering up to 4.0 V<sub>ms</sub> supported and TTX filter integrated
- Two PCM interfaces deliver up to 8 Mbit/s
- Control via a single serial controller interface (SCI/SPI)
- Programmable feed current up to 45 mA
- Two battery voltages for on-hook and off-hook with automatic battery switch
- Silent battery switching
- Constant current and resistive DC feeding
- Ground key and ground start supported

- Off-hook detection with programmable de-bounce time
- Line voltage measurement to determine line length or short circuits
- Level metering and loops support diagnostic tests
- Small number of operating states eases software development
- Very low power dissipation
- Small footprint SSOP packages
- Industrial temperature range available
- EASY 2466 and TB 208 evaluation boards are available

# SICOFI® + FlexiSLIC™

## Cost Effective Line Cards

### PEB 2466

### PBL 38620, PBL 38621, PBL 38650



Never stop thinking

Never stop thinking.

| Chip Set                       | PEB 2466,<br>PBL 38620 | PEB 2466,<br>PBL 38621              | PEB 2466,<br>PBL 38650    |
|--------------------------------|------------------------|-------------------------------------|---------------------------|
| Application                    | Basic linecard         | Line card with<br>polarity reversal | Extended<br>linecard      |
| Maximum feed current           | 30 mA                  | 30 mA                               | 45 mA                     |
| Polarity reversal              | No                     | Yes                                 | Yes                       |
| Metering                       | Low level              | Low level                           | Up to 4.0 V <sub>ms</sub> |
| Ground Key                     | Yes                    | Yes                                 | Yes                       |
| Ground Start                   | No                     | No                                  | Yes                       |
| Line voltage<br>measurement    | No                     | No                                  | Yes                       |
| Ring relay driver              | Integrated             | Integrated                          | Integrated                |
| Automatic battery<br>switching | Yes                    | Yes                                 | Yes                       |

## Overview of SLIC Features

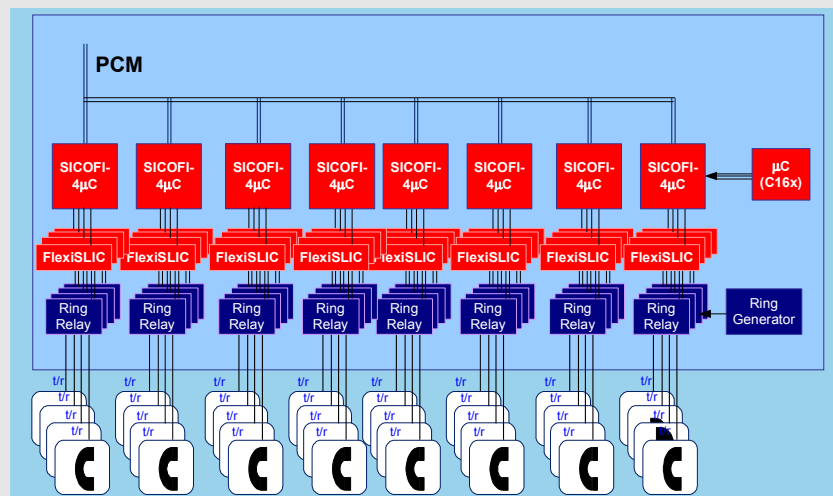
### Ordering Information

#### Design Tools

| Type      | Sales Code | Package            | Description                      |
|-----------|------------|--------------------|----------------------------------|
| SICOFI    | EASY 2466  | Evaluation package | four-channel SICOFI-4μC TE board |
| FlexiSLIC | TB 208     | Evaluation package | single-channel FlexiSLIC board   |

#### Chip Set

| Type       | Sales Code | Package   | Description                                   |
|------------|------------|-----------|---|
| SICOFI-4μC | PEB 2466   | P-MQFP-64 | SICOFI-4μC single-chip CMOS                   |
| FlexiSLIC  | PBL 38620  | SSOP-24   | FlexiSLIC for basic linecard                  |
| FlexiSLIC  | PBL 38621  | SSOP-24   | FlexiSLIC for linecard with polarity reversal |
| FlexiSLIC  | PBL 38650  | SSOP-24   | FlexiSLIC for extended linecard functionality |



## 32-Channel Line Card

High density linecard with  
centralized ring generator

How to reach us:

<http://www.infineon.com>

Published by  
Infineon Technologies AG  
81726 Munich, Germany

© Infineon Technologies AG 20. March 2007.  
All Rights Reserved.

#### Legal Disclaimer

The information given in this Product Brief shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffungsgarantie"). With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

#### Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office ([www.infineon.com](http://www.infineon.com)).

#### Warnings

Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office.

Infineon Technologies Components may only be used in life-support devices or systems with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.