

Q I H P C

PEF 2426

QUAD ISDN/S(H)DSL

High Voltage

Power Controller

The Quad ISDN High Voltage Power Controller is an integrated power controller especially designed for feeding two-wire ISDN transmission lines. Up to four U-interface, S-interface or S(H)DSL-lines can be powered by one chip, making the QIHPC to become an essential part on central office-, DSLAM-, PBX-linecards and in Integrated Access Devices (IADs).

Each powered line is individually controlled and monitored by the device interface. This enables an easy detection of overloads and faults and a fast localization even on a large system. The integrated intelligent chip temperature control guards the QIHPC in case of overload. Additionally eight drivers for external relays are integrated in the QIHPC.



ISDN/S(H)DSL

Applications / U-interface

- Central office digital linecards
- Access network digital linecards
- WLL Linecards

Applications / S(H)DSL

- Central office digital linecards
- Access network digital linecards

Applications / S-interface

- Integrated Access Devices (IAD)
- PBX linecards

Features

- ISDN line feed supply voltage up to 130 V
- Supplies power for up to four transmission lines
- ETSI TS 102 080 (ISDN), TS 101 524 (S(H)DSL) and ITU-T G.991.2 Annex B

- Functional comparability to the IEPIC PEB 2025
- Separate current monitoring and limiting for each line
- Current feeding up to 150 mA
- Flexible digital supply voltage between 3 V and 6 V
- DC current limiting level can be programmed by an external resistor
- Overcurrent indication threshold can be programmed with external resistors independently from the current limitation
- Intelligent chip temperature control
- The overcurrent indication setup delay can be programmed separately for each line by external capacitors

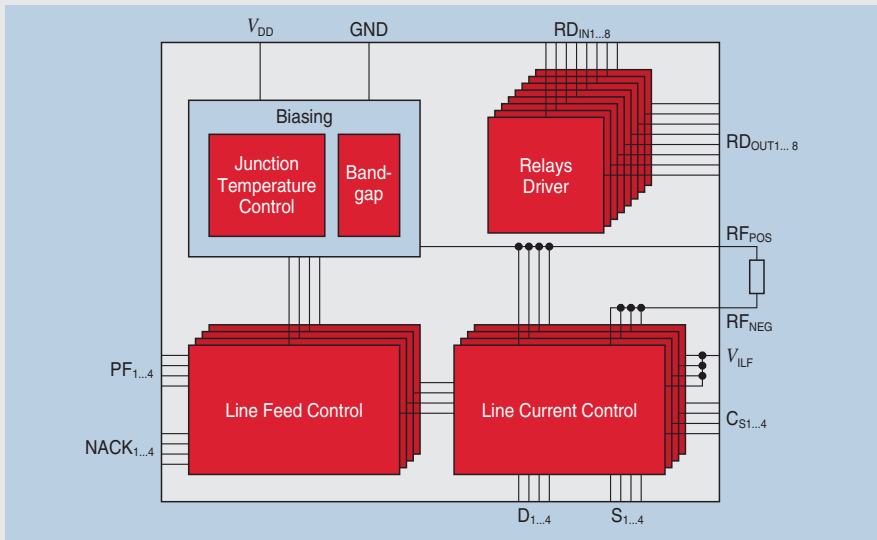
- Switching off current limited lines automatically when expecting overheating problems
- Switching off of all four lines automatically in case of real overheating
- Proper start up sequencing in case of simultaneous power up requests
- Controllable via Infineon's 4-channel U-transceiver chipsets
- Integrated relay drivers for eight relays providing up to 40 mA collector current per driver
- Extended temperature range (-40 °C to +85 °C)
- Small P-MQFP-44 package

ISDN / S (H) DSL

QUAD Power Controller



Block Diagram



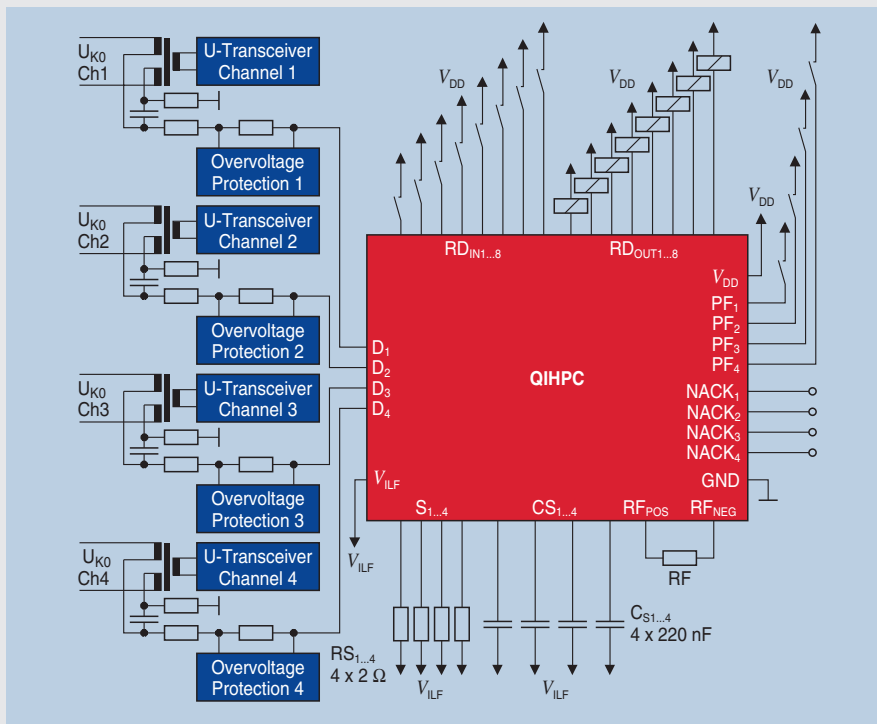
Ordering Code

Type	Package	Sales Code	Availability
PEF 2426 H V1.1	P-MQFP-44	Q67233-H1099	Production

Tools and Documentation

Name	Sales Code	Status
Data Sheet PEF 2426 V1.1		10.01
SMART 2426 V1.0 Demoboard	Q67230-H1230	Available

Power Feeding on ISDN U_{k0} Linecards



How to reach us:

<http://www.infineon.com>

Published by
Infineon Technologies AG,
St.-Martin-Strasse 53,
81541 München

© Infineon Technologies AG 2001. All Rights Reserved.

Attention please!

The information herein is given to describe certain components and shall not be considered as warranted characteristics.

Terms of delivery and rights to technical change reserved.

We hereby disclaim any and all warranties, including but not limited to warranties of non-infringement, regarding circuits, descriptions and charts stated herein.

Infineon Technologies is an approved CECC manufacturer.

Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office in Germany or our Infineon Technologies Representatives worldwide.

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.