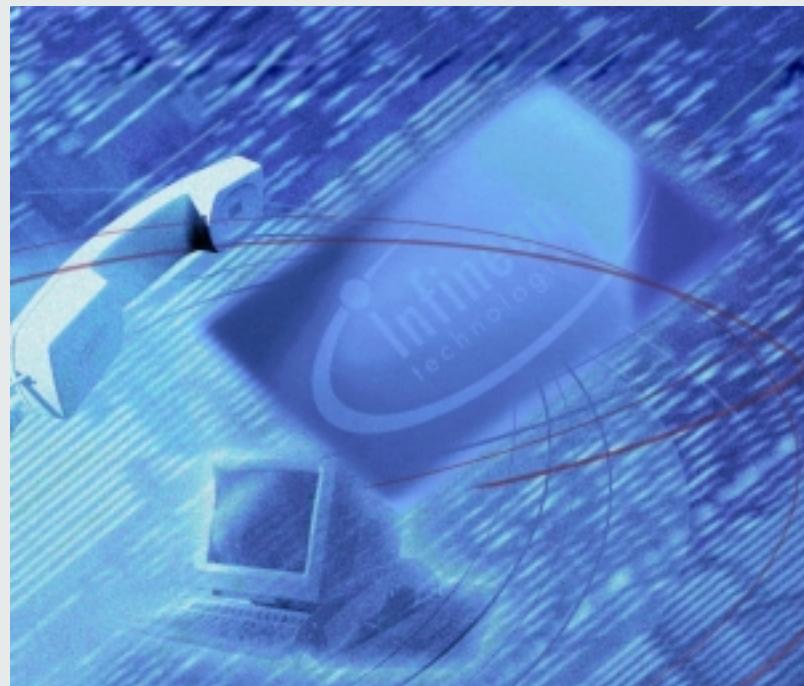


IEC-Q

PEB/F 2091 V5.3

ISDN Echocancellation Circuit for 2B1Q Line Code

The ISDN 2B1Q Echocancellation Circuit (IEC-Q) is an optimized single chip solution featuring ISDN basic rate access. It fulfills all relevant ANSI, ETSI and ITU standards. Its flexible design makes the IEC-Q fit into a variety of applications like digital linecards, digital loop carriers, digital added mainlines and wire-less local loops. The chip offers a universal 8-bit µC-interface and a IOM®-2 interface. A sophisticated power management system permits to reduce the application's power consumption to a minimum. The IEC-Q is available in P-LCC-44 and P-TQFP-64 package. The IEC-Q is part of the Infineon System Solution.



ISDN/IDSL

Potential Applications

- Central office digital linecards
- Access networks linecards
- Network terminators
- WLL radio base stations
- Digital Loop Carriers
- Digital Added Main Lines
- PBXs
- U-Terminals

Features

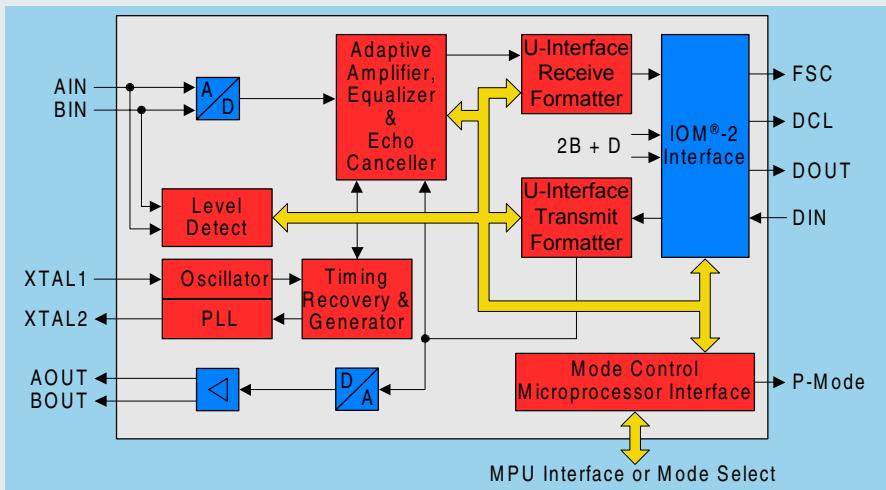
- Single chip solution featuring full duplex data transmission and reception over two-wire metallic subscriber loops providing ISDN basic rate access or IDSL access at 144 kbit/s

- Fully compliant to:
 - ANSI T1.601 (1998)
 - ETSI TS 102 080 (1998)
 - Recommendation ITU-T G.961
- 2B1Q line code at 80 kHz symbol rate
- LT-, LT-RP-, COT-512-, COT-1536-, TE-, NT- and NT-auto mode
- Universal 8-bit µC-interface
 - Serial (SCI)
 - parallel
 - parallel multiplexed
- Equipped with
 - µC-Interface
 - IOM®-2-interface
- Sophisticated power management
- Extended temperature range available
- Low power consumption for restricted mode
- Undervoltage detection
- Suited for WLL applications by:
 - Constant delay
 - Base station synchronization
- P-LCC-44 or P-TQFP-64 package
- Part of the Infineon Technologies system solution

ISDN/IDSL
Echocancelling Circuit
for 2B1Q Line Code

Never stop thinking.





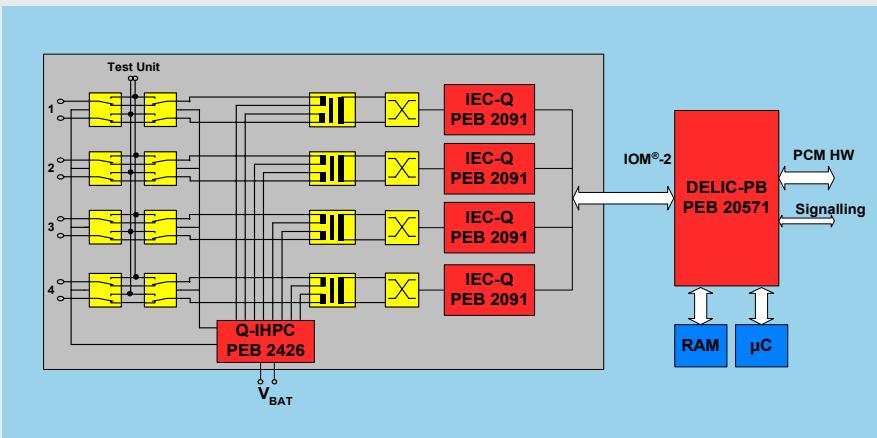
Block Diagram

Ordering Code

Type	Package	Sales Code	Availability
PEB 2091 N V5.3	P-LCC-44	Q67236-H1078	Production
PEF 2091 N V5.3	P-LCC-44	Q67236-H1069	Production
PEF 2091 F V5.3	P-TQFP-64	Q67237-H1077	Production

Tools and Documentation

Name	Sales Code	Status
Data Sheet IEC-Q V5.3		01.99
Delta Sheet IEC-Q V5.3		09.98
PEB 2091 - Test Report for V5.3		05.99
Application Note: Synchronisation of Radio Base Stations		03.99
Changes at the 2B1Q-Interface Hybrid Circuit		07.98
SIPB 2092 Demoboard	Q67100-H6746	Available



Application Example

ISDN/IDSL Linecard

How to reach us:
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Published by
Infineon Technologies AG,
Bereich Kommunikation,
St.-Martin-Strasse 53,
D-81541 München

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