General Description
The PEB 2025 is an integrated power controller especially designed for ISDN environments and for the use in a digital exchange. High-voltage CMOS technology 60 V ensures variety of applications:
• Two- and four-wire transmission lines
• Point-to-point configurations
• Point-to-multipoint configurations

The device is fully compatible with the CCITT recommendations for power feed at the S-interface. Each line is individually powered and controlled via a microprocessor interface. An interrupt output pin signals any malfunction to the microprocessor.

Programmable output current and thermal shutdown guard the PEB 2025 against overloads.

Features
• Compatible to CCITT recommendations for power feed at the S-interface
• Supplies power for up to four transmission lines. Each line is individually powered and controlled
• High-voltage CMOS technology (up to 60 V, shiftable)
• Maximum output current programmable up to 100 mA
• Programmable switch-off characteristic by overcurrent detection
• Automatic restart after removal of overload conditions
• Status detectors for each line driver
• Microprocessor-compatible interface (up to 8-MHz clock frequency)
• Interrupt output for detection of any malfunction
• Full protection against shorts between transmission lines

Block Diagram