

## ISDN Exchange Power Controller (IEPC)

### 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.

Type	Package
PEB 2025-N	P-LCC-28-1 (SMD)
PEB 2025-P	P-DIP-22-1 (not for new designs)

### 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

