

**General Description**

The UTPT is a full duplex ATM transceiver for two pairs of twisted pair lines, one for each direction.

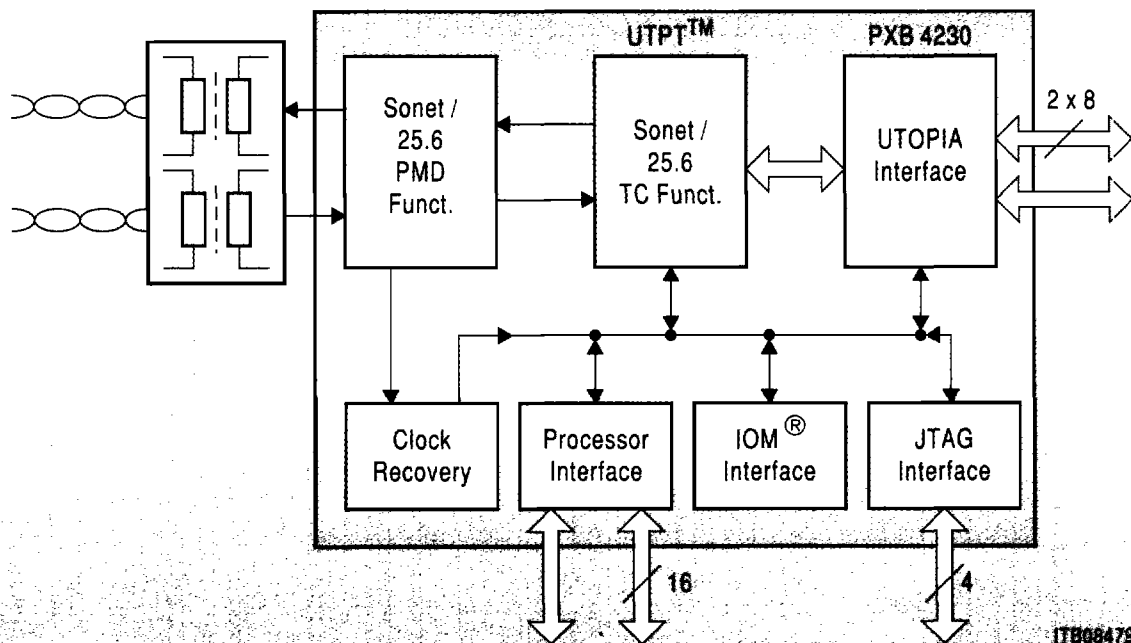
It supports both the ATT and IBM mode. In AT&T mode provides automatic bit rate adaption depending on the quality of the transmission line. The UTPT communicates with other devices on the ATM side via the industry standard universal multiport UTOPIA interface being compatible with UTOPIA level 1 and level 2.

As additional feature, the device is able to transmit 2B+1D ISDN channels when operating in AT&T mode. It also provides an ISDN IOM-2 inter-device interface and as such can be directly connected to Siemens ISDN chips. The UTPT is perfectly suited to be integrated into Network and Line Interface Cards.

Type	Package
PXB 4230	P-MQFP-160-1 (SMD)

**Features**

- Single chip full duplex ATM transceiver for unshielded twisted pair cat 3/5 cables
- Programmable to AT&T and IBM mode
- AT&T mode: STS-1 framing, CAP-n coding 51.84-Mbit/s, 25.92-Mbit/s and 12.96-Mbit/s automatic rate adaption according to cable and B.E.R.
- IBM mode: 4b/5b coding, NRZI, 25.6 Mbit/s
- Serial, differential in/outputs with direct connection to line transformers
- Built-in clock recovery
- ATM-layer functions: HEC evaluation, payload descrambling, cell delineation and cell rate decoupling according to ITU-T I.423
- Universal multiport UTOPIA interface compatible to level 1 and level 2
- Complete overhead handling including bit error measurement
- 16-bit microprocessor interface
- Built-in data path loops for test
- Support of JTAG-boundary scan test
- 0.5 μm 3.3-V CMOS technology
- P-MQFP-160 package



ITB00479