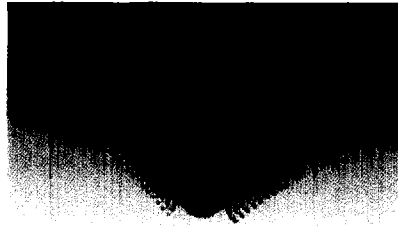


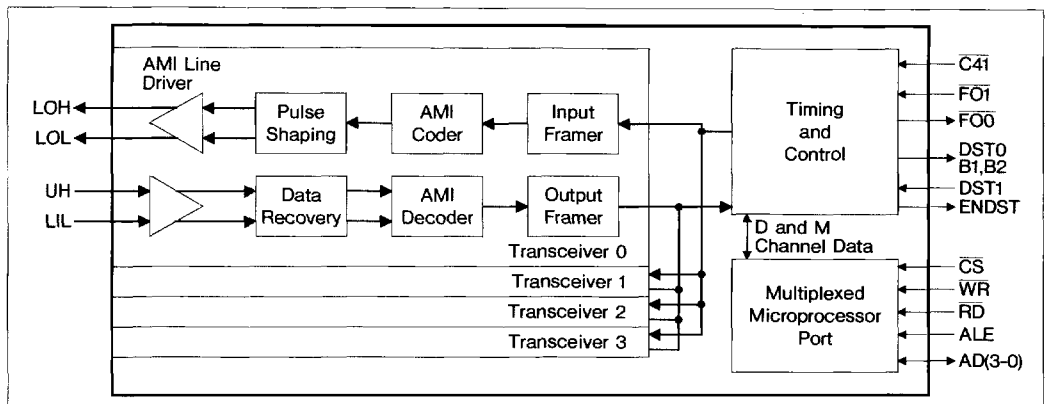
AK134/135

2B+D TCM Integrated Quad Transceiver



44pin QFP (14x14x2.7mm)

- ① Completely integrated quadruple baseband transceiver for 2 wire twisted pair applications
- ② 2B+1D+1M channels of PCM-BUS framed data, using time compression multiplexing
- ③ Data rate: 160kbps (2B+1D+1M)
- ④ Loop Coverage: 1km (AK134)/2km (AK135)
- ⑤ Pin compatible between AK134 and AK135
- ⑥ Low amplitude pulse-shaped Alternate Mark Inversion (AMI) coding for reduced spectral radiation
- ⑦ Differential receiver architecture for highly reliable data recovery
- ⑧ Bit error rate less than 10^{-7}
- ⑨ PCM and Microprocessor ports for combined port operation
- ⑩ Operates on a single +5V power supply and draws only 360mW active power (typ)
- ⑪ Package: 44 pin QFP

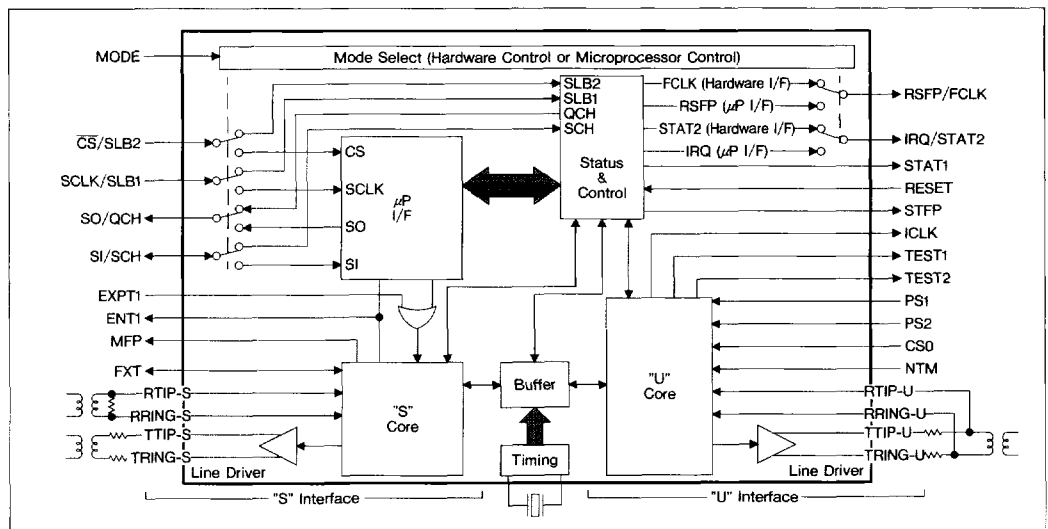


AK134/135 BLOCK DIAGRAM

AK510

ISDN NT1 Transceiver

- ① Single Chip ISDN NT1 (2B1Q U+S) transceiver
- ② Activation/Deactivation
- ③ eoc decoder
- ④ CRC and febe processing
- ⑤ DFE (Decision Feedback Equalizer) to compromise bridged taps, gage changes, etc.
- ⑥ Linear and non-linear echo canceller
- ⑦ Excellent NEXT margin
- ⑧ 8.192MHz oscillator circuit
- ⑨ 5V single power supply
- ⑩ Low power CMOS
- ⑪ Package: 80 pin QFP (14x14x2.7mm)



AK510 BLOCK DIAGRAM