

**Network Termination Controller NTC-T PEB 8090**

*The Network Termination Controller (NTC-T) is a Network Termination (NT) circuit for the basic rate ISDN. It combines a U-transceiver and an S-transceiver on one chip. It provides the 4B3T U-interface together with the S/T-interface. The NTC-T works as a stand-alone NT1 with completely automatic handling of all layer-1 procedures without a microcontroller.*

**1. Potential application**

- NT1, NT1+
- Repeater for 4B3T-Line Code

**2. Features:**

Single chip solution including U- and S-transceiver  
 Perfectly suited for the NT1 in the ISDN

- Fully automatic activation and deactivation of  $U_{ko}$  - interface and S/T - interface
- U-interface (4B3T) conform to the FTZ Guideline 1 TR 220 of the Deutsche Telekom AG (DTAG)
  - 4B3T ternary block code
  - Meets all transmission requirements on all ETSI and FTZ loops with margin
- S/T-interface conform to ITU Rec. I.430 and ETS 300 012
  - Meets and exceeds all FTZ and ETSI transmission requirements
  - Supports point-to-point and bus configurations
- Minimized external component count
  - Integrated U-interface hybrid
  - Integrated pull-up resistors
- IOM-2 interface eases chip testing and design of an Intelligent NT
- Low power CMOS technology with power-down mode

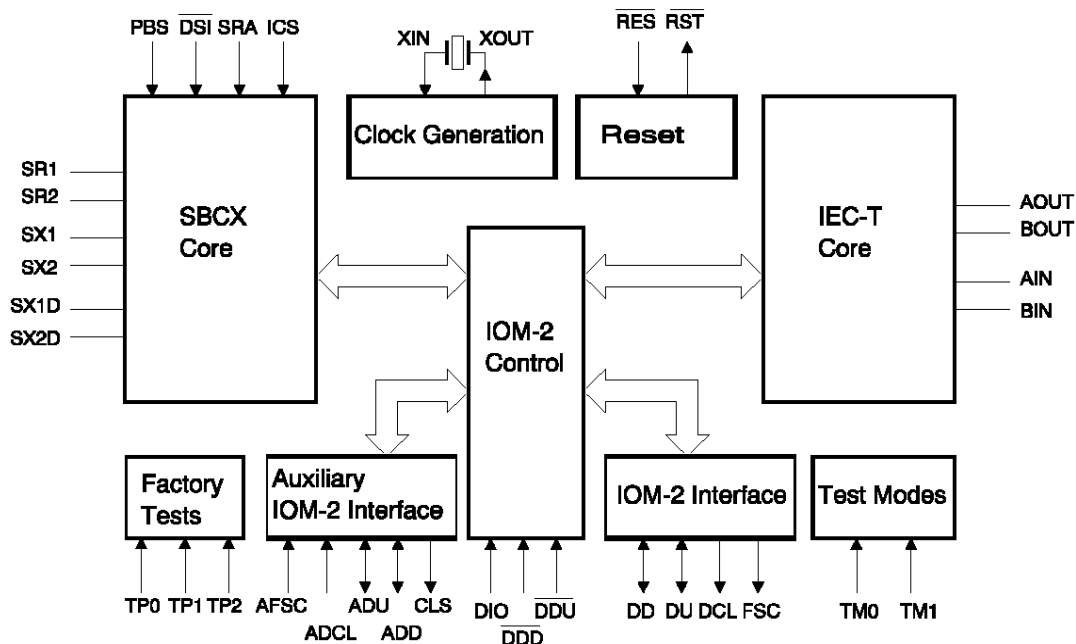
**3. Packaging**

Type	Ordering Code	Package
PEB 8090 H V1.1	Q67227-H1031	M-QFP 64
PEB 8090 F V1.1	Q67221-H1000	T-QFP 64

**4. Product status**

Product	Step	Status	Changes
PEB 8090 F/H	V 1.1	ES in Oct. 97	

**5. Diagram**



6. Documentation (Please contact our sales office for details)

	<u>Date of issue/version</u>	<u>Type of material</u>
Prel. Data Sheet	9/97	Copy
Product Overview	06/97	Copy

7. Development and support tools

	<u>Availability</u>	<u>Ordering number</u>
SIPB 8090	December 97	on request

8. Application

- Standard NT 4B3T System Solution

