

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

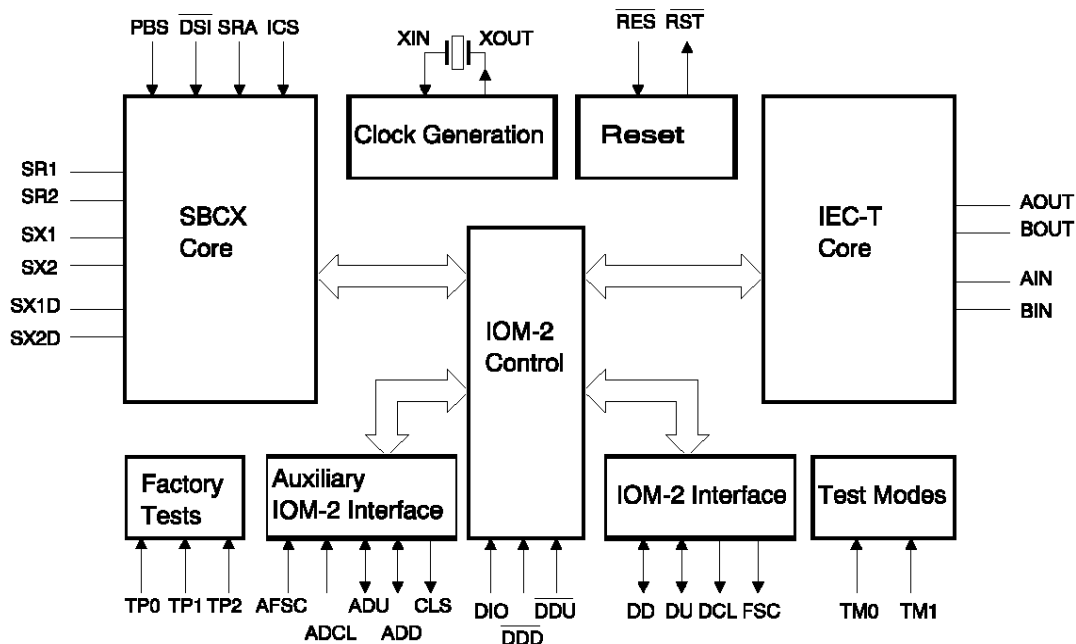
3. Packaging

| 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

