SIEMENS

Network Termination Unit GTU

ULAF+

Always up-to-date

The multifunctional unit

This multifunctional unit is operated as stand-alone device. Three operation modes are possible:

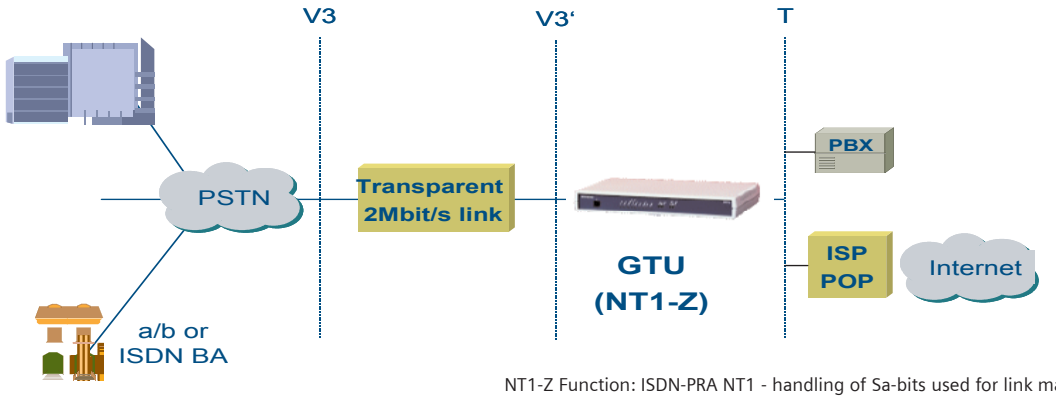
- Interface conversion from data (nx64 kbit/s, X.21, V.35, V.36, 10base-T) including add/drop with «Fractional E1» into 2 Mbit/s G.703/G.704.
- ISDN PRA Network Termination for transparent 2 Mbit/s links.
- Support of inband management with LineIntegrator NMS.

The GTU is available as a desktop unit as well as a plug-in unit. The G.703/704 V-Interface features an RJ45 connector on board (no module).
The characteristic impedance of the V-interface can be switched between 120 Ω and 75 Ω by means of a jumper. The GTU can be equipped with all available ULAF+ interface submodules. In this way, the GTU can be configured for various customer's application needs.

ISDN-PRA Network Termination for transparent 2 Mbit/s line (NT1-Z function)

The GTU supports the whole NT1-Z functionality. Therefore it can be used in all environments where NT1-Z is applied .

The GTU fulfills all requirements of the ITU-T and ETSI standards for ISDN specific maintenance functions. This includes supervision and alarming as well as setting loops from the ISDN central office.



NT1-Z Function: ISDN-PRA NT1 - handling of Sa-bits used for link maintenance from ISDN local exchange (LE) e.g. loopbacks/acknow-ledgements, alarms and CRC4.

Product Overview

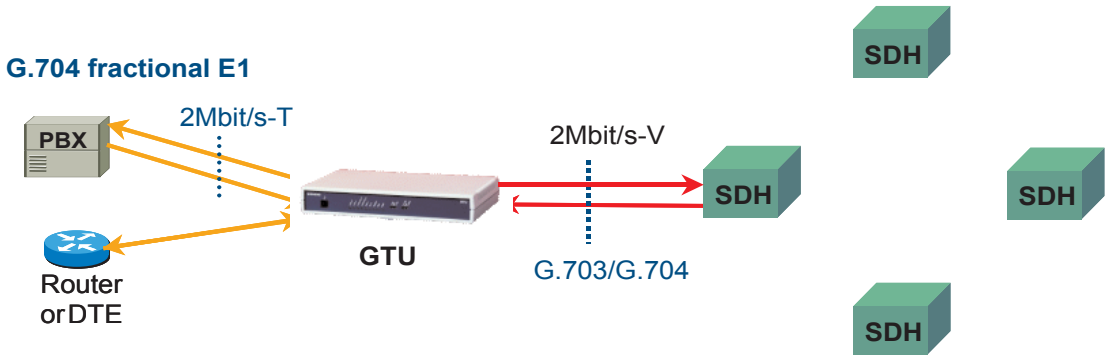
Interface Converter

The GTU allows to connect data equipment with nx64 kbit/s or 10Base-T interface to transmission systems or networks with G.703 interface. A frequent scenario is the interconnection between a router with a X.21/V.35/V.36 interface to PDH or SHD transmission equipment, which usually has no data interfaces. Until now this application was done with an NAG-2D.CP.

The GTU in comparison to the NAG-2D.CP offers the addional ability to combine data with a fractional E1 signal using the Add/Drop mode.

The GTU creates G.704 frames on the G.703 V-interface with the payload of the G.703 T-interface and the data interface. On the far end the GTU terminates the G.704 frame and allocates the timeslots to the corresponding interfaces.

Following illustration shows a typical application scenario.



Technical data

Input voltage
- Plug-in version . . . . . .40 V_{DC} to 72 V_{DC}
- Desktop version . . . . . .40 V_{DC} to 72 V_{DC}
- . . . . . .95 V_{AC} to 260 V_{AC}

Power consumption (typical) . . . . . .6 W

Network interface

2 Mbit/s V interface . . . . .RJ45 (switchable 75 Ω/120 Ω)

2 Mbit/s T interface . . . . . .all available 2 Mbit/s modules

Data interface . . . . . .all available data modules

Functionality

Operating modes
- Transpararent E1 . . . . . .ITU-T G.703
- Structured E1 . . . . . .ITU-T G.704
- NT-1 . . . . . .ETS 300 233, ITU-T I.433
- nx64 kbit/s V.35/V.36/X.21/10base-T

Management

. . . . . .local / remote

Dimensions
- Plug-in version . . . . . .Double Eurocard format
- Desktop version (W x H x D) . . . .272 x 47,5 175 mm

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