Network Termination Unit GTU

for ULAF+ access platform

The multifunctional unit

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

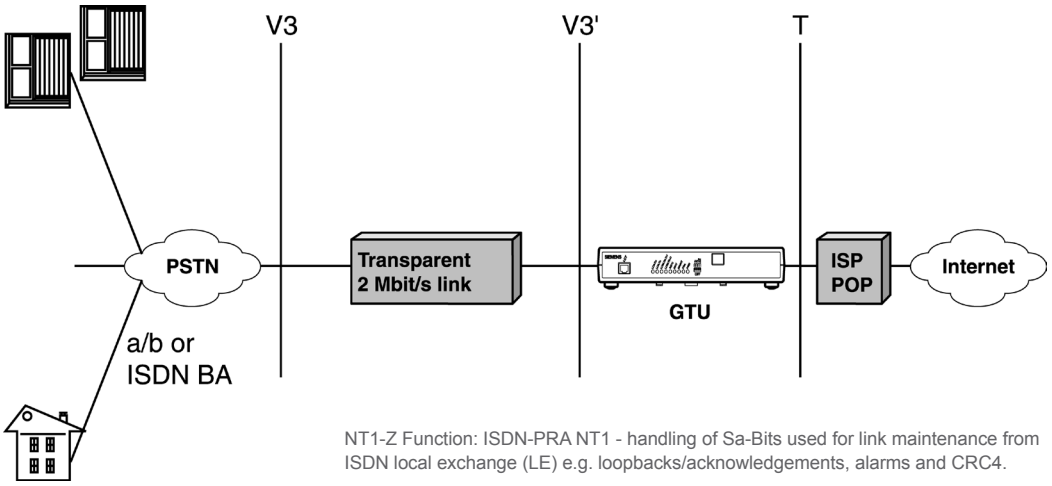
- Interface conversion from data (nx64 kbit/s, X.21, V.35, V.36, 10Base-T) including add/ drop with «Fractional E1» into 2 Mbit/s G.703/G.704.
- ISDN PRA Network Termination for transparent 2 Mbit/s links.
- Support of inband management with AccessIntegrator NMS.

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 Ohm and 75 Ohm by means of a jumper. The GTU can be equipped with all available ULAF+ interface submodules. In this way, theGTU can be configured for various customer's appli-cation needs.

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

The GTU supports the whole NT1-Z functio-nality.Therefore it can be used in all environ-ments whereNT1-Z is applied .

The GTU fulfills all requirements of the ITU-T andETSI standards for ISDN specific main-tenance func-tions. This includes supervision and alarming as wellas 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/acknowledgements, alarms and CRC4.

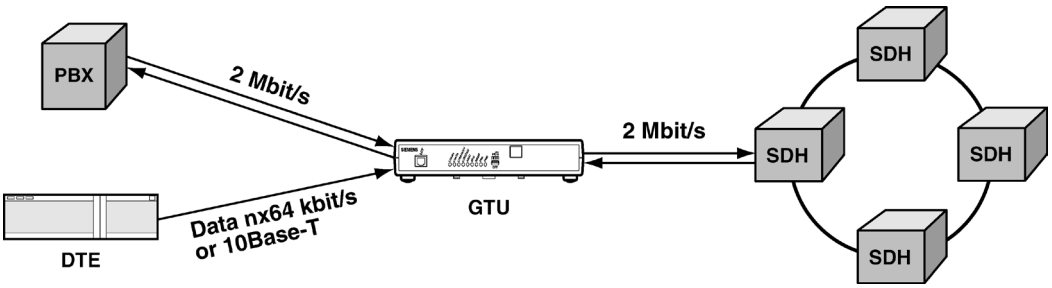
Interface Converter

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

Power Supply	
Input Voltage	
Plug-in version	40 VDC to 72 VDC
Desktop version	40 VDC to 72 VDC 95 VAC to 260 VAC
Power Consumption (typical)	6W
Network Interfaces	
2 Mbit/s V interface	RJ45 (switchable 75/120 Ohm)
2 Mbit/s T interface	all available 2 Mbit/s modules
Data interface	all available data modules
Functionality	
Operating modes	
Transparent 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
Physical and environment	
Plug-in version	Double Eurocard size
Desktop version (W x H x D)	272 x 47,5 x 175 mm (wall-mounting possible)
Temperature (in operation)	-5° – +55° at 5 – 95 % rel. humidity



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