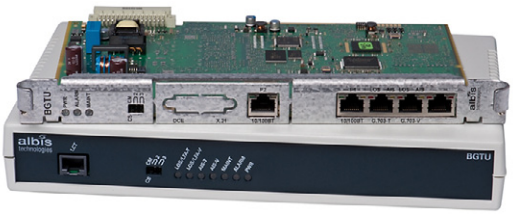
Interface Converter BGTU

for ULAF+ access platform

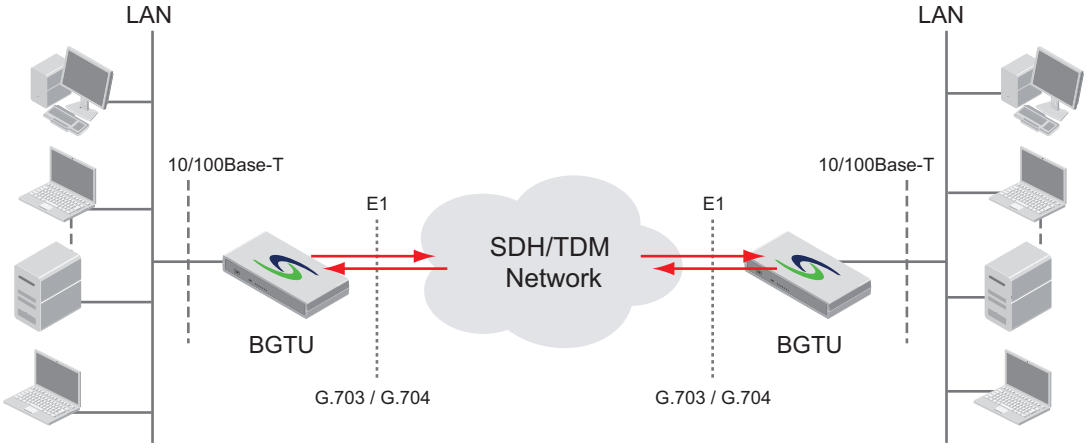
Product Overview

With its modular design and wide range of interfaces the BGTU is a very flexible interface converter solution, that can be used to meet specific customer requirements.

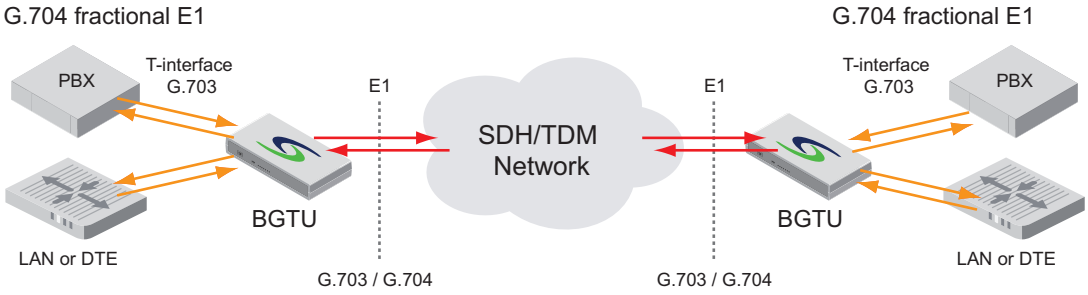


It offers conversion between E1 interfaces and standard data communications interfaces V.35, X.21, V.36 and Ethernet. The BGTU also includes a self learning Layer-2 switch with VLAN transparency.

Typical application: Interface Converter Ethernet Data ↔ G.703 / G.704 (E1): LAN interconnection over a TDM network



Typical application: Interface Converter fractional E1 + nx64 kbit/s ↔ G.703 / G.704 (E1)



The multifunctional interface converter unit

With a BGTU the following operation modes are possible:

- Interface conversion from Ethernet or nx64kbit/s data to 2Mbit/s G.703 / G.704 network IF
- Interface conversion from Ethernet or nx64kbit/s data including add/drop with Fractional E1 into 2 Mbit/s G.703 / G.704 network IF
- G.703 'Transparent E1' operation mode
- G.704 'Structured E1' operation mode
- ISDN PRA operation mode
- Interface converter 'Ethernet over E1' for DCN (e.g. Support of inband management with AccessIntegrator NMS)

The Interface Converter BGTU is available as desktop or as plug-in unit for the ULAF+ subrack. It can be operated as stand-alone device, in an application with two BGTUs the far unit can be remotely managed through a TDM/SDH Network.

The following interfaces are available in different versions of the BGTU:

- G.703/G.704 (120 Ω/ 75Ω) with RJ45 connector network interface
- G.703/G.704 (120 Ω/ 75Ω) with RJ45 connector subscriber interface
- 2 x Ethernet 10/100Base-Tx connector
- X.21 with Sub-D 15-pin connector
- V.35 with ISO 2593 connector
- V.35 with Sub-D 25-pin connector
- V.36 with Sub-D 37-pin connector
- Clock interface
- Alarm interface

The BGTU is an interface converter for full or fractional E1 services. Bit rates at the data ports are selectable for any multiple of 64 kbps up to 1,984 kbps. Unframed E1 can be supported up to 2.048 Mbps.

The Interface converter BGTU can be managed and configured like any other ULAF+ product: either with the LCT (Local Craft Terminal) software or with the AcI (AccessIntegrator), ULAF+'s network management software.

Technical data BGTU

Power Supply	
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	< 4W
Interfaces	
2 Mbit/s interface	2
Connector	RJ45
Technology	G.703 (120 Ohm / 75 Ohm)
Slot for data interface	1
Interfaces	X.21, V.35, V.36
Ethernet interface	2
Connector	RJ45
10Base-T/100-Base-Tx port	IEEE 802.3 Full / Half Duplex, Flow Control, Auto negotiation Auto crossover
Switch	self learning (2k MAC addresses) VLAN transparent
Local Craft Terminal (LCT)	1x RJ45 (ISO 8877)
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)
Operating temperature	-5° – +55° C (at 5 – 95 % rel. humidity)

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

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

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