

# Network Termination BSTU Regenerator BSRU

for ULAF+ access platform

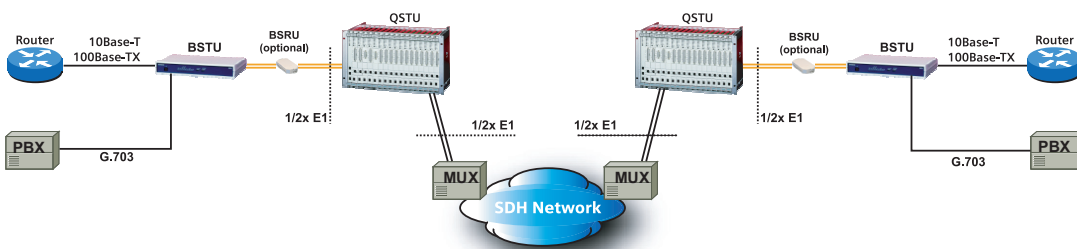


## Product Overview

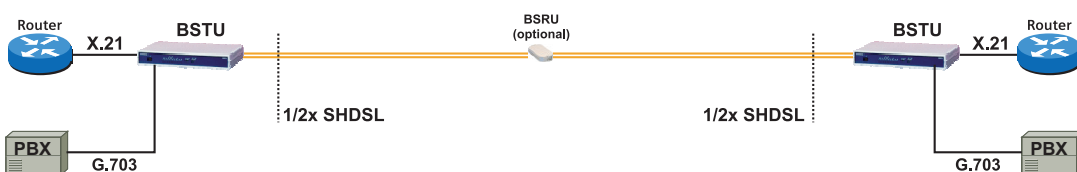
The BSTU is an universal Termination Unit for the ULAF+ product family designed to transmit symmetrical broadband traffic over one or two copper wire-pairs. It offers professional solutions for the delivery of business voice and data services with bandwidths up to 11,4 Mbit/s by using the SHDSL (Single pair Highspeed Digital Subscriber Line) technology according to ITU-T G.991.2. With its modular design and wide range of interfaces the BSTU is a very flexible solution, that can be used to meet specific customer requirements. The BSTU also includes a self learning Layer-2 switch with VLAN transparency.



## Typical application - Ethernet Leased Lines and voice services over SDH/TDM Networks



## Typical application - data and voice services in a Campus Network up to 11,4 Mbit/s



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

- G.703/G.704 (120 Ω/ 75 Ω) with RJ45 connector
- 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

To increase the normal range of SHDSL system, up to 8 regenerators (BSRU) can be cascaded. Therefore the BSTU is available with an integrated remote power supply (RPS), which enables the remote powering of several regenerators or the remote BSTU. The BSTU is available as a plug-in version and as a desktop version, the BSRU is housed in an octagonal plastic case. BSTU and BSRU are fully integrated into ULAF+, they are configured and managed like any other ULAF+ product: either with the LCT (Local Craft Terminal) software or with the Acl (AccessIntegrator), ULAF+'s network management software.

## Technical data BSTU

### Power supply

Input voltage	
Plug-in version	40 VDC to 72 VDC
Desktop version	40 VDC to 72 VDC
	95 VAC to 260 VAC

Remote Power Supply	
Voltage	120 / 180 VDC
Current	50 / 60 mA
Power Consumption	< 8 W
providing remote power 2x 120V/50mA	< 23 W
providing remote power 2x 120V/60mA	< 27 W

### Interfaces

Ports for transmission interface	1/2
SHDSL over UTP copper	1x RJ45 (ISO 8877)
Line code	TC-PAM 16/32
Technology	ETSI TS 101 524, ITU-T G.991.2
Bitrates	192 kbit/s to 5696 kbit/s per wire-pair
Ports for 2 Mbit/s interface	1/2
Connector	RJ45
Technology	G.703 (120 / 75)
Ports for data interface	1
Interfaces	X.21, V.35, V.36
Ports for Ethernet interface	1
Connector	RJ45
10Base-T/100Base-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)
Temperature	-15° C to + 55° C (at 5 to 95 % rel. humidity)

## Technical data BSRU

Feed voltage	60 VDC to 180 VDC
Max. feed current	60 mA
Power consumption	< 3 W
Dimension (W x H x D)	110 x 35 x 225 mm

### Interfaces

Ports for transmission interface	4
Line code	TC-PAM 16/32
Technology	ETS TS 101 524, ITU-T G.991.2
Bitrates	192 kbit/s to 5696 kbit/s per wire-pair
Temperature	-15° C to + 55° C (at 5 to 95 % rel. humidity)