Network Termination Unit QSTU

for ULAF+ access platform



Product Overview

The QSTU is a SHDSL termination unit equipped with 4 SHDSL interfaces and (depending on the operating mode) up to 4 autonomous G.703 subscriber interfaces, what means, that an ULAF+ subrack can host up to 64 systems.

The QSTU significantly reduces space requirements in central offices, collocation and customer premises, thus reducing overall system costs. For cost-sensitive Telecom companies, the QSTU is the ideal platform to deploy 2 Mbit/s services.

Management systems

QSTUs are configured using the Local Craft Terminal (LCT) software, but the QSTU also fits perfectly into ULAF+'s remote management system environment (see management software 'AccessIntegrator').

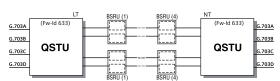
Operating modes

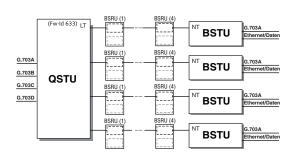
The QSTU can be used in 3 different system configurations:

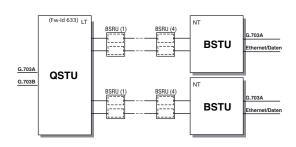
- 1x 4 wire-pairs SHDSL allowing for up to 100% higher loop length
- 2x 2 wire-pairs SHDSL resulting in high port density and up to 40% higher loop length
- 4x 1 wire-pair SHDSL resulting in high2 Mbit/s port density

You can combine the QSTU with all SHDSL network termination units (BSTU/BSRU) of the ULAF+ family.











Regenerator

If the distance exceeds the maximum loop length, up to 4 SHDSL regenerators (BSRU) per wire-pair can be used. The regenerators are fed by the remote power supply of the termination units. Each BSRU regenerates the SHDSL signal and doubles the transmission range.

Clock and alarm interface module

This optional module for the desktop unit allows to derive the system clock. In addition, the prioritized alarms are available on two alarm contacts.

Technical data

QSTU motherboard

Input voltage

 $\begin{array}{ccc} \text{Plug-in version} & 40 \text{ V}_{\text{DC}} \text{ to } 72 \text{ V}_{\text{DC}} \\ \text{Desktop version} & 40 \text{ V}_{\text{DC}} \text{ to } 72 \text{ V}_{\text{DC}} \\ & 95 \text{ V}_{\text{AC}} \text{ to } 260 \text{ V}_{\text{AC}} \\ \end{array}$

when providing remote power (120V60mA)

< 37 W < 42 W

Remote Power Supply

Voltage $$120\ V_{\rm DC}$$ Current $$50\ /\ 60\ m\mbox{M}$$

Dimensions

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

Transmission interface

Medium	UTP copper
Technology	SHDSL (ETSI TS 101 524, ITU-T G.991.2)
Line code	TC-PAM 16
Bitrates	4x1 wire-pair mode: 192 kbit/s to 2048 kbit/s
or	2x2 wire-pairs mode: 384 kbit/s to 2048 kbit/s
or	1x4 wire-pairs mode: 768 kbit/s to 2048 kbit/s
Socket	RJ45 (ISO 8877)

Network / Customer interfaces

Versions available with 75Ω and 120Ω Connectors for 2 Mbit/s interfaces 4x RJ45 (ISO 8877)

Functionality

Basic configuration

LTU / NTU

4x1 wire-pair mode

2x2 wire-pair mode

1x4 wire-pair mode

Operating modes

Transparent E1 G.703
Structured E1 G.704
ISDN PRA ETS 300 233, ITU-T I.431
Clock sources Line/internal/external/incoming signal

Environmental conditions

Temperature (in operation) -5° to +55°C at 5 to 95 % rel. humidity

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