Extend your ISDN with the

PT
Private Terminator

The PT product family has been developed to enable connections to be made between ISDN telephones that may be located in remote locations, and the main PABX/switch.
With help of the PT's, ISDN BRI (S_0) Interfaces can be converted either to U or U_{p0} interfaces.

The PT's require no configuration and are completely Plug and play.

The main application lies in extending the ranges of BRI (S_0) interfaces up to 8 km, and/or with the help of PT Repeaters up to 24 km.

The PT-SU converts an ISDN-S_0-BRI Interface to a U-Interface and the PT-US reconverts this U-Interface into the original S_0-BRI Interface.

The PTI is a module in a 19-inch rack format, which has the function of 4 x PTs. The PTI is used at locations where several S_0-BRI Interfaces need to be converted to U interfaces. The range of a S_0-BRI Interface is extended by the combination of PT-SU and PT-US over a copper twin wire up to distances of 8 km.

With the use of an additional PT Repeater the range can be extended up to 24 km. The PT's are completely transparent and thus can be used with any protocol e. g. 1TR6 and EDSS1.

The PT-SU_P converts an ISDN-S_0-BRI Interface into a U_{P0}-Interface and the PT-U_PS converts this back from the U_{P0}-Interface into the original S_0-BRI Interface. The range of a S_0-BRI Interface is extended by the combination of PT-SU_P and PT-U_PS over a copper twin wire up to distances of 3.5 km.

The PT is fitted in a 13 x 6 x 5 cm case and allows the following extensions of ISDN facilities:

PT used as an Interface converter
1. **U_0 to S_0**
   Enables the connection of a S_0 bus via an U_0 interface, for example to a PABX system.
2. **S_0 to U_0**
   Allows the connection of terminals with U_0 interfaces to the S_0 bus.

PT used as a Repeater
To bridge particularly long distances, the PT can also be used as a Repeater.
1. **S_0 - U_0 Repeater**
   The PT-SU enables you to connect a terminal located at a remote site to the S_0 bus of an NT1 or a NT2 using a 2-wire cable.
2. **U_0 - S_0 Repeater**
   This is the reverse option of S_0 - U_0.

Order numbers:

U_0 (2B1Q)
PT-US	2F3101
PT-SU	2F3201

Up0
PT-UpS	2F3401
PT-SUp	2F3501

PTI
PTI-SU	1F3201
PTI-US	1F3601

Configuration examples:

ISDN Telephone ISDN Telephone ISDN PC

PT-US

U_0 2 U_0 S_0 4 S_0

max. 8 km
(U_{P0} max. 2 km)

max. 150 m
(point to multipoint)
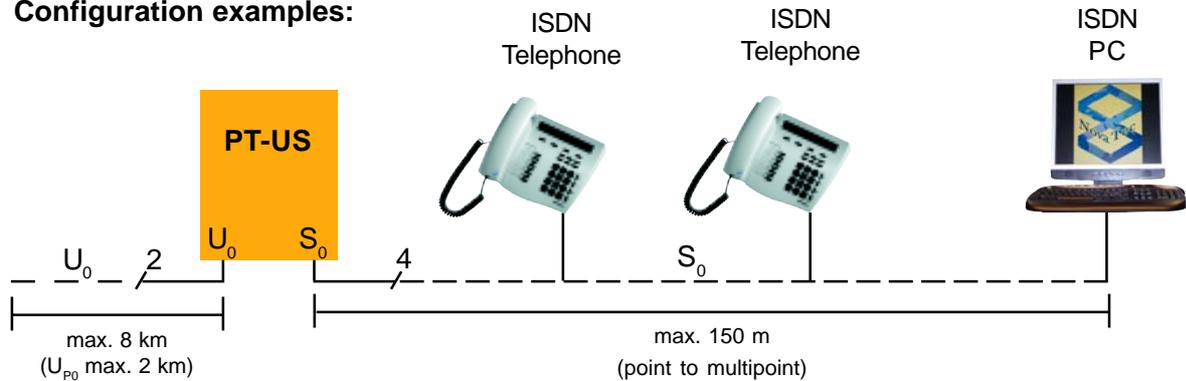
The PT as an Interface converter: Converts the two wire U_0 Interface to a four wire S_0 Interface.

**PT-SU
(NT2)**

PT-US

**S_0-TE
(NT2)**

U_0 2 U_0 S_0 4 S_0

max. 8 km
(U_{p0} max 2 km)

max. 1 km
(point to point)
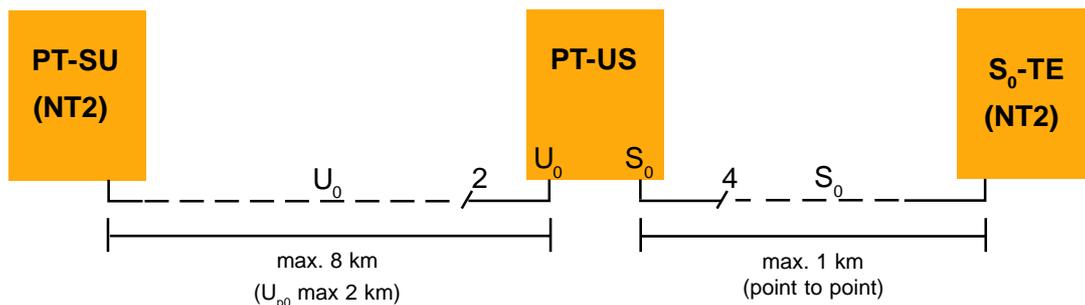
The Interface conversion can be realised as required from U_0/U_{P0} to S_0 or from S_0 to U_0/U_{P0} (other Interfaces on request).

ISDN Telephone

**NT1
(NT2)**

PT-SU

PT-US

S_0 4 S_0 U_0 2 U_0 U_0 S_0 4 S_0

max. 1 km
(point to point)

max. 8 km
(U_{p0} max 2 km)

max. 1 km
(point to point)
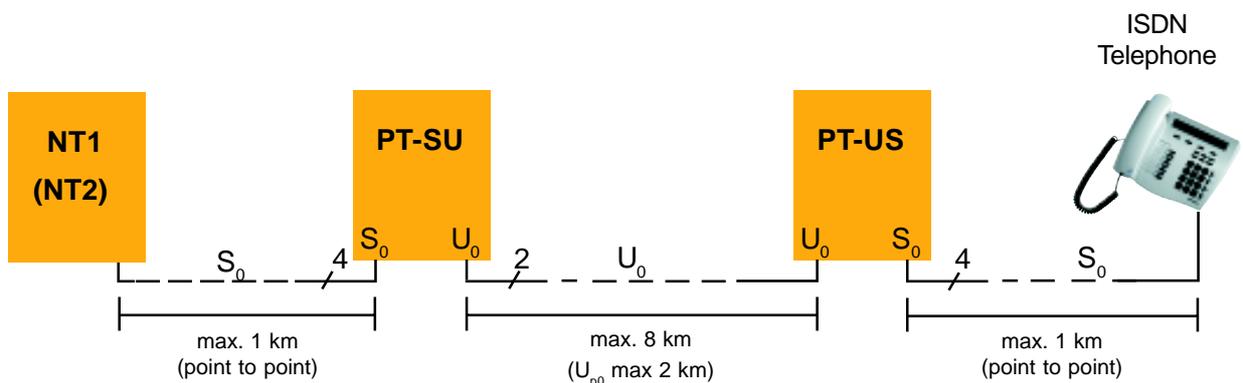
PT as a Repeater: To bridge paricularly long distances the PT can be used as a Repeater.