



We change the shape of the world



Extend your ISDN line length with the PT-Repeater or PT-0-Modem



PT-Repeater:

An ISDN BRI U-loop is 2 conductors from the PABX or PSTN (public switch telephone network) to the terminal or customer premises. Its maximum length may be 5.500 meter (18.040 ft.). In a variety of configurations, this length may be not enough. The **PT-Repeater** can help to double the loop length. It has two U_0 interfaces. The first interface is in slave mode and acts as a network terminator (NT). The second interface is in master mode and acts as a line terminator (LT). The **PT-Repeater** can be powered remotely from both NT-and/or LT interface or locally by its own external power supply.

Technical Data:

There are four versions available:

1. PT- U_0U_0 :

The line code of both U interfaces is 2B1Q and specified according ANSI standard T1.601.

2. PT- $U_{k0}U_{k0}$:

The line code of both U interfaces is 4B3T.

3. PT- U_0U_{k0} :

Is prepared for simultaneously line code conversion from 2B1Q to 4B3T.

4. PT- $U_{k0}U_0$:

Is prepared for simultaneously line code conversion from 4B3T to 2B1Q.

Dimensions: L 235 x W 120 x H 83 mm.

Order numbers:

PT- U_0U_0 (2B1Q)	2F2100
PT- $U_{k0}U_{k0}$ (4B3T)	on request
PT- U_0U_{k0} (2B1Q + 4B3T)	on request
PT- $U_{k0}U_0$ (4B3T + 2B1Q)	on request
Power supply 230 V\sim¹	2F4004

PT-0-Modem:

Before ISDN was established, most data transmission was handled by modems. The known interfaces such as V.24 (RS232) or V.11 were defined as interconnection interfaces for example between PCs and modems. 0-modems were only a direct (without modem) interconnection between two PCs for testing purposes. **PT-0-Modem** bases on the ability to connect two ISDN terminals back to back. The precondition hereto is the ability of the terminals to handle the communication in the higher ISDN layers (layer 2/3) because **PT-0-Modem** is fully protocol transparent.

Technical Data:

There are two versions of **PT-0-Modem** available:

PT-0-Modem (U_0U_0) with 2B1Q and
PT-0-Modem ($U_{k0}U_{k0}$) with 4B3T line code.

Dimensions: L 235 x W 120 x H 83 mm.

Order numbers:

PT-0-Modem (U_0U_0) (2B1Q)	on request
PT-0-Modem ($U_{k0}U_{k0}$) (4B3T)	on request
Power supply 230 V\sim¹	2F4004

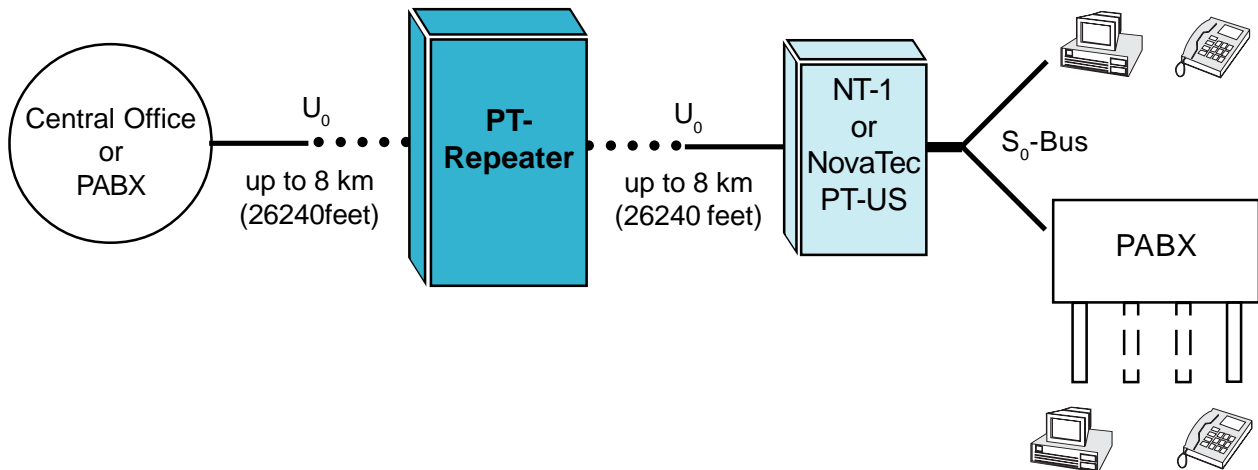
Housing of all products is prepared for outdoor installation (IP65).



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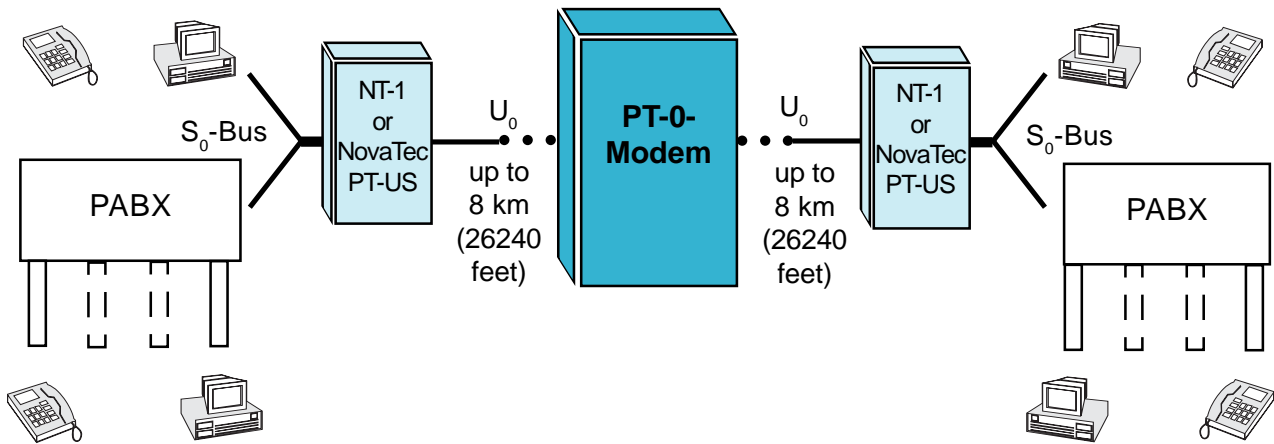


Possible applications and configurations with PT-Repeater



If the distance is longer than 8.000 meter, the PT-Repeater can be used to double the range. The PT-Repeater is fully protocol independent!

Possible applications and configurations with PT-0-Modem



In this application, the PT-0-Modem supplies both NT-1s with electrical energy and reference clock. The adaption between the layer 1 of the two NT-1s is also handled by the PT-0-Modem.

*: loop powered (local powering is also possible)