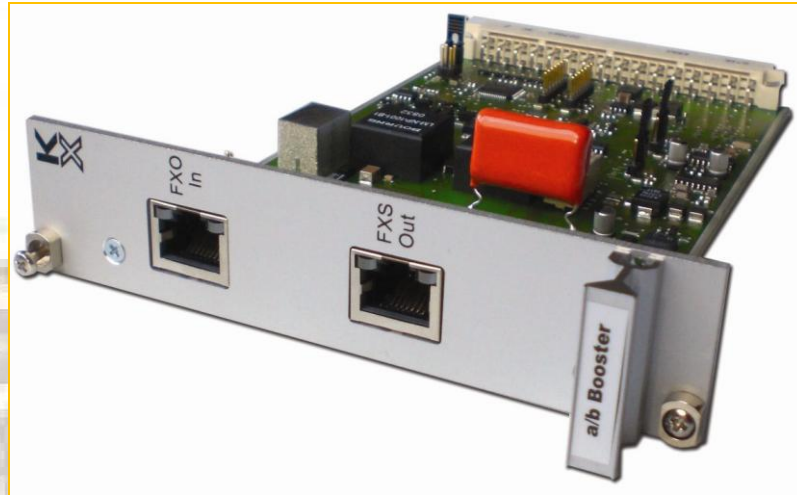


DPXab – Distance Plus Family Analog Booster



Introduction

The DPXab is part of the DistancePlus-Family and serves to increase the range of analog subscriber lines. This allows the extension of analog interfaces via a 2-wire line. The possible distances depend mainly on the used cables and diameter. The DPXab suits well for VoIP equipment, which does normally not offer the capability for long-distance connection, as this was the case with legacy telephone equipment.

To achieve the longer distances, the supply voltage and the ringer's voltage are increased accordingly so the higher loop resistance can be compensated. The voice signal is amplified adaptively.

In this way distances can be bridged up to 8km on a 0.4 mm diameter twisted pair.

The DPXab does support all kinds of analog equipment like analog phone and fax and is optimized for MFC (multi frequency code). Pulse dialing is not supported.

Two different cases are available for the installation of DPXab. The TG-1 is a robust desktop housing made of metal, which is also suitable for wall mounting.

For applications requiring higher density, the 19"-chassis 19R3 can be used. This chassis is made to house three members of the DPX-family. Thus, parallel operation can be realized in one housing.

Features

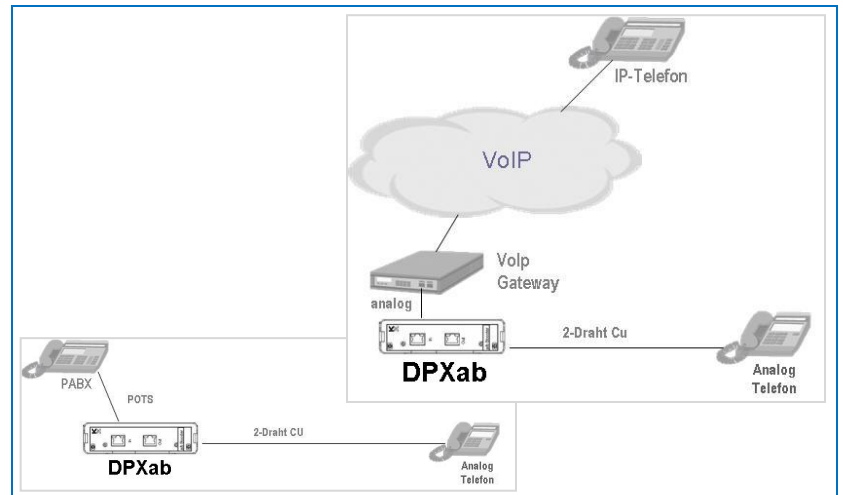
- ▶ Extension of distance for analog phones
- ▶ 8km on cables with 0,4mm Ø
- ▶ adaptive LF – Gain (low frequency)
- ▶ configurable ringing frequency
 - ▶ 25Hz or 50 Hz
- ▶ Support for On Hook LF transfer
 - ▶ CLIP (Calling line identification presentation)
 - ▶ CLIR (Calling Line Identification Restriction)
 - ▶ MWI (Message Waiting Indicator)
- ▶ 4 LED-indicators in the front
- ▶ Alarm contact for fault indication
- ▶ Plug-and-play installation because of automatic configuration
- ▶ Available as compact 3RU rack mount card or desktop version

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Application Examples

1: DPXab as an extension to a VoIP Gateway.

2: DPXab as an extension of the analog interface of a PBX



Specifications

a/b telephone line

- Frequency Range: 300 – 3400Hz
- Ringer's Frequency: 25Hz / 50Hz
- LF-gain compensates 3 km and/or 6km @cable-diameter of 0,4mm
- Connector: RJ-45
- Caller Identification: 25Veff
- Feeding voltage: 68V
- Ringer voltage: 70Veff
- Loop detection: 18mA
- Loop current (out): 21,8mA

Features

- Plug-n-Play installation
- Low power consumption

Environmental

- Operating: +0 to +50°C (ETS300019-1-3; class3.1)
- Transport: -25 to +70°C (ETS300019-1-2; class2.2)
- Storage: -10 to +55°C (ETS300019-1-1; class1.2)
- Humidity: 10 to 90%, non-condensing
- Safety-Norm: acc. to EN60950
- EMC
 - Emission: EN55022 class B
 - Immunity: EN61000-4-3 10V/m

Power

- Supply Voltage: 230VDC
- Power Consumption: < 4 VA, over current protected

Physical

- Weight: < 200g
- Dimensions:
 - 130mm H x 30mm W x 190mm D
 - 45mm H x 145mm W x 260mm D (in TG-1)
- 19" rack: 3 slots available in 1RU rack (19R3)

Specification may change without prior notice. Please refer to www.arcutronix.com for latest data-sheets.

For more information please contact arcutronix GmbH or visit us at www.arcutronix.com.

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