arcutronix

DPXsu – Distance Plus Family
S0 – Uk0 – Interface

Introduction

The DPXsu is part of the DistancePlus-Family and serves to increase the range of digital subscriber lines. This allows the extension of ISDN S0-interfaces via a 2-wire line. The possible distances depend mainly on the used cables and diameter.

To achieve the longer distances, the S0-interface is converted into an Uk0-interface, which offers longer on less cable. In this way distances can be bridged up to 6km on a 0.4 mm diameter twisted pair.

On the remote end, the DPXsu does support any kind of ISDN-NT, with or without remote feeding requirement.

The DPXsu is available in a single and a double port variant.

Two different cases are available for the installation of DPXsu. 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 ISDN S0-bus
‣ 6km on cables with 0,4mm Ø
‣ 1x S0-Interface/s
‣ 1x Uk0-Interface/s
‣ Line Code 2B1Q

‣ Automatic Clock detection and Configuration

‣ 4 LED indicators in the front
‣ Alarm contact for fault indication

‣ Plug-and-play installation because of automatic configuration
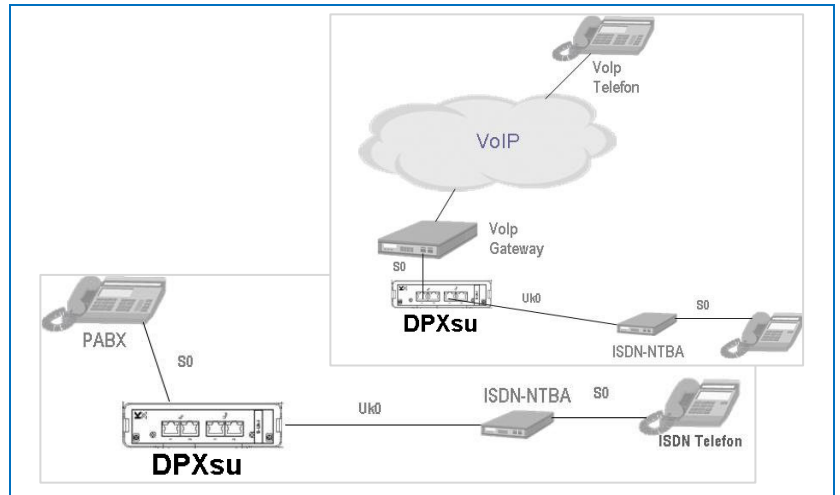‣ Available as compact 3RU rack mount card or desktop version

Application Examples

1: DPXsu as an extension to a VoIP Gateway.

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

Specifications

S0 Interface

- Speed: 192kbit/s
- S0 acc. ITU-T I.430
- TE Mode
- Connector: RJ-45

Uk0 Interface

- ISDN Base-Rate
  o 2B1Q acc. ETSI TS 102080
- Remote Feeding: 95V DC +/- 5%
  o automatic switch-off in case of over-current
- Connector: RJ-45

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
  o Emission: EN55022 class B
  o Immunity: EN61000-4-3   10V/m

Power

- Supply Voltage: 230VDC
- Power Consumption: < 8 (16) VA, over current protected

Physical

- Weight: < 200g
- Dimensions:
  o 130mm H x 30mm W x 190mm D
  o 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.

Version 01/14 © 2014 arcutronix GmbH