FCX2700

arcutronix

available November 2008

Flexible 3R Fibre Transponder

Introduction

The modular FCX2700 is a flexible fiber optic converter and repeater with integrated management. It has two independent channels that allow a data rate of up to 2.7 Gbit/s. Full 3R Regeneration (re-amplification, re-shaping, re-timing) on each channel is included.

The chance to complete any port of each channel with individually selectable fiber optic SFP modules makes it suitable for use in a wide range of applications.

The integrated management facilitates fine-tuning of its features, performing loops and BERT tests, as well as monitoring of the line quality via SNMP or Telnet, based on the SFP's Digital Diagnostic functions.
Two Ethernet and one Fiber management ports allow cascading of two or more converter units for management purposes.

Features

- Fully flexible "any-to-any" color/fiber/budget choice for each port on each channel
- Fibre optic 3R Repeater for Long distance Transmission
- Color generator for passive CWDM/DWDM Systems
- Managed 3R Fiber Optic Converter/Repeater with two independent converter channels, each one provided as a SFP slot pair
- Channel data rate up to 2.7 Gbit/s
- Selection of multi-mode, single-mode, WDM, CWDM or DWDM for each port individually
- Fully protocol transparent
- Integrated management via VT100-CLI, SNMP and Telnet
- Support of test loops and performing BERT tests via management
- Digital Diagnostic Monitoring (DDM) of the SFP modules
- 2x Copper RJ45 and one
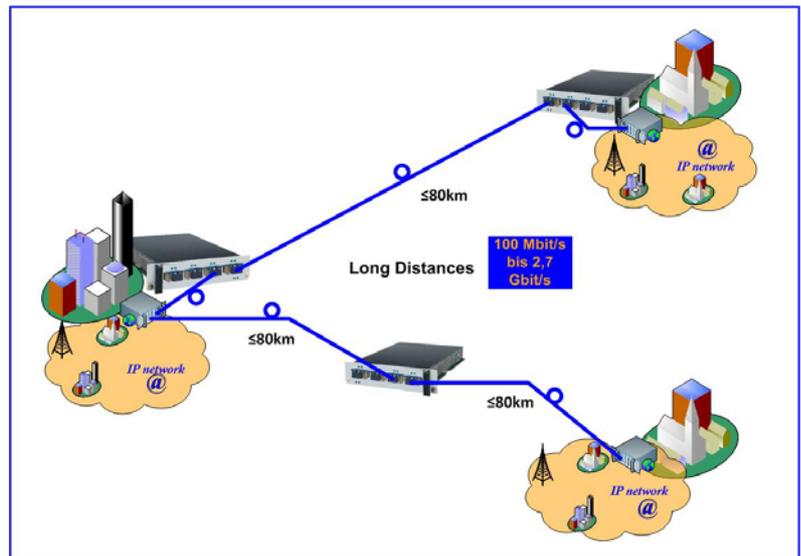- fiber SFP port for Ethernet SNMP/Telnet management allow cascading

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Application Example

The FCX2700 works as a Fibre Optic 3R Signal Regenerator for up to two fibre optic lines.

It can converts also two independent applications each with 1310nm to CWDM/DWDM color cheme

Specifications

Data Rates

- Nine fixed 3R Data Rates 100Mbit/s up to 2,7 Gbit/s
  - FDDI, 100Mbit Ethernet
  - STM 1, STS 3
  - ESCON
  - STM 4, STS 12
  - Fibre Channel
  - Gigabit Ethernet
  - 2G Fibre Channel
  - STM 16, STS 48
  - STM 16, STS 48 + FEC
  - Transparent Mode (without 3R)

Fibre Optic Interfaces

- Two SFP Module Slots per Channel

Management

- VT100
- SNMP Configuration and Monitoring
- Telnet console
- Softwareupdate via TFTP
- Management interfaces:
  10/100 BaseT RJ45; VT100 Sub-D9

Environmental

- Operating: 0 to +45°C
- Storage: -10 to +70°C
- Humidity: 5 to 95%, non-condensing
- Free convection cooling without the need for fans

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