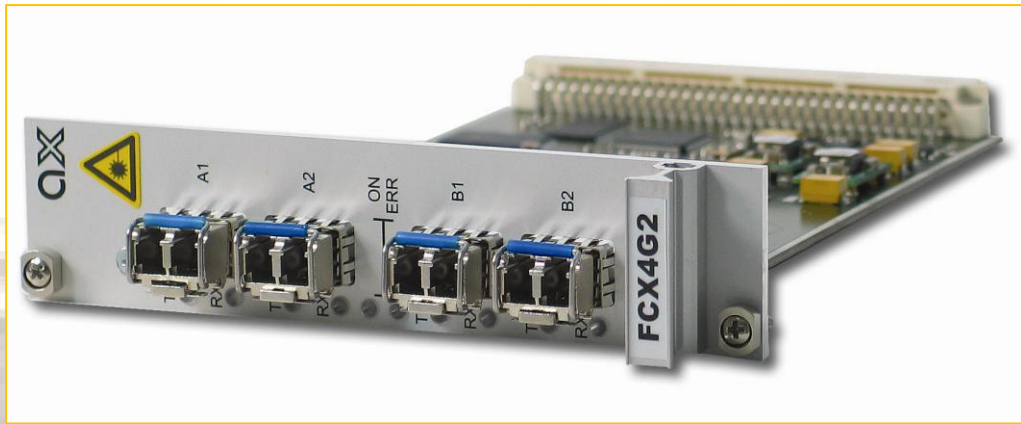


FCX4G

Flexible 3R Fibre Transponder



Introduction

The modular FCX4G is a flexible fibre optic converter and repeater with integrated management for broadband data transport. FCX4G has one or two independent channels, each supporting data rates for lots of applications including Ethernet, SDH and Fibre Channel from 100 Mbps up to 4.25 Gbps. Full 3R-Regeneration (re-amplification, re-shaping, re-timing) for each channel in both directions making the FCX4G to a unique member of arcutronix Transmission family.

The option to plug on any port a free and individually selectable fibre optic SFP module makes the FCX4G suitable for use in a wide range of applications.

The integrated management facilitates fine-tuning of FCX4G features, performing loops, as well as monitoring the line quality via SNMP, SSH or Web-GUI, based on the SFP's Digital Diagnostic functions.

Access to management functions can be realized via One-slot housing (SHX3) or via system controller (SCX) in 19" racks (SRX).

Features

- ▶ Channel data rate 100 Mbps - 4.25 Gbps
- ▶ Fully flexible "any-to-any" color/fibre/budget choice for each port on each channel
- ▶ Fibre optic 3R Repeater for Long distance Transmission (up to 120km)
- ▶ Color generator for passive CWDM/DWDM Systems
- ▶ Managed 3R fibre Optic Converter/Repeater with two independent converter channels, each one provided as a SFP slot pair
- ▶ Selection of multi-mode, single-mode, WDM, CWDM or DWDM for each port individually
- ▶ Fully protocol transparent
- ▶ Special unit version (FCX4G-SEC) offers Broadcasting and Fibre Link Protection capabilities
- ▶ Integrated management via VT100-CLI, SNMP and SSH
- ▶ Support of test loops via management
- ▶ Digital Diagnostic Monitoring (DDM) of the SFP modules

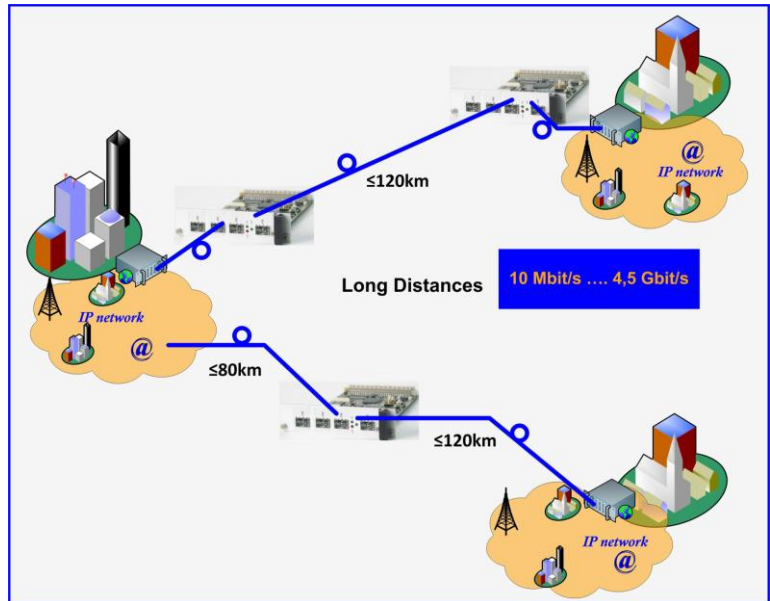
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Application Example

The FCX4G works as a fibre Optic 3R Signal Regenerator for up to two fibre optic lines.

It can convert also two independent applications each with 1310nm to CWDM/DWDM color scheme.



Specifications

Data Rates

- Thirteen fixed 3R Data Rates 100Mbit/s up to 4.25 Gbit/s
 - Fast Ethernet, FDDI, IEC 104
 - STM-1, OC-3 (STS-3)
 - ESCON
 - STM-4, OC-12 (STS-12)
 - Gigabit Ethernet
 - 1G, 2G and 4G fibre Channel
 - STM-16, OC-48 (STS-48)
 - STM-16, OC-48 (STS-48) + FEC
 - Transparent Mode (without 3R)

Fibre Optic Interfaces

- FCX4G:
 - 2x Slots for pluggable SFP modules
- FCX4G2:
 - 4x Slots for pluggable SFP modules
- FCX4G-SEC:
 - 3x Slots for pluggable SFP modules

Management

- SNMP Configuration and Monitoring*
 - Telnet console*
 - Web-Based Management*
 - VT100
 - Software update via TFTP
- * via Rack

Environmental

- Operating: 0 to +40°C
- Storage: -25 to +70°C
- Humidity: 5 to 95%, non-condensing

Power

- Input: 5 VDC via Backplane
 - Power Consumption: < 10 VA*, overcurrent protected
 - Voltage/Lightning Protection: acc. ITU-T K.20
 - Power supply via system rack SRX or housing SHX
- * depends on plugged SFPs

Physical

- Weight: < 250g
- Dimensions:
 - 130mm H x 30mm W x 190mm D
 - 45mm H x 145mm W x 260mm D (in SHX3)
- 19" rack: 10 slots available in 3RU rack

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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