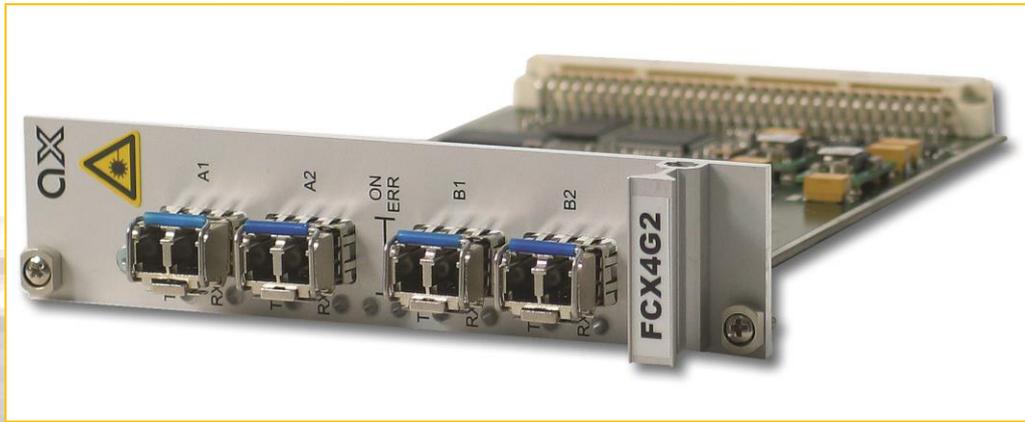


FCX4G

Flexible 3R Fibre Transponder 100-4250Mbps



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 LPT/RFD option for the optical lines suits perfect to existing installations, where the forward of detected errors are necessary for the proper operation of the end-to-end service.

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
- ▶ Management via VT100-CLI, SNMP and SSH
- ▶ Support of test loops via management
- ▶ Digital Diagnostic Monitoring (DDM) of the SFP modules
- ▶ LPT (Link Fault Pass Through) and RFD (Remote Failure Detection)

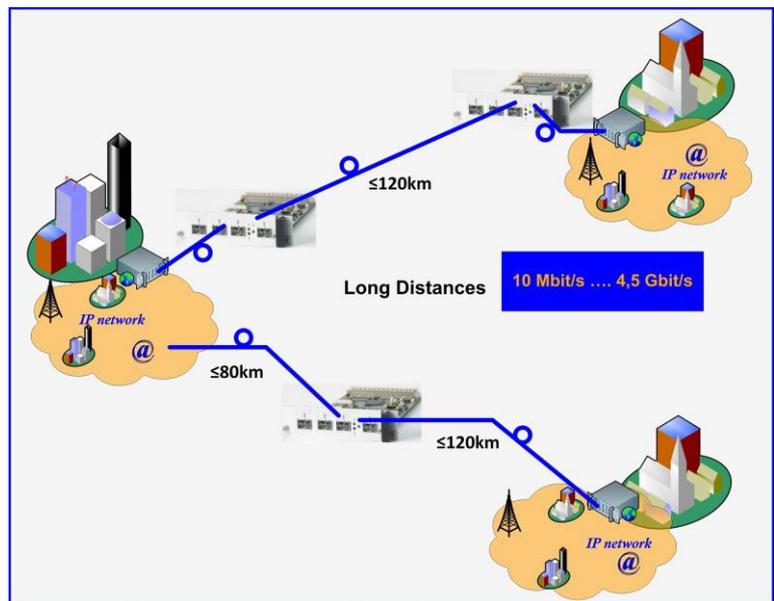
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Application Example

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

- 3R Data Rates 100Mbps up to 4.25 Gbps
 - Fast Ethernet, FDDI, IEC 104
 - STM-1, OC-3 (STS-3)
 - ESCON
 - STM-4, OC-12 (STS-12)
 - Gigabit Ethernet
 - Fibre Channel: 1G, 2G and 4G
 - STM-16, OC-48 (STS-48)
 - STM-16, OC-48 (STS-48) + FEC
 - SMPT292 (HD-SDI)
 - 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 and VT100
- * via Rack SRX10 and SRX3

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: < 2 VA*, overcurrent protected
 - Max power supply: 15W total (incl. SFPs)
 - Voltage/Lightning Protection: acc. ITU-T K.20
 - Power supply via system rack SRX or housing SHX
- * without 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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