

QLx111GRx - 11.1 Gbps Single Channel Lane Extender

Q:ACTIVE® Lane Extender technology is the first silicon-based solution developed specifically for copper cable applications. Integrating Q:ACTIVE components into each end of a passive cable assembly boosts the signal and improves receiver sensitivity to provide a dramatic decrease in cable gauge and an increase in cable reach - up to three times that of a passive cable.

The QLx111GRx is a settable equalizer with advanced protocol support for 10GBASE-CR (10G Ethernet over copper cable), and other high-speed applications. The equalizer compensates for frequency dependent attenuation of non-return-to-zero (NRZ) data on twin-axial copper cables. It is also specifically optimized to compensate for group velocity dispersion problems in stressful data patterns such as 64b/66b encoding of 10G Ethernet. The small form factor, highly-integrated design is ideal for high-density cable applications. LOS support is included for module applications.

Contact sales@quellan.com
408-774-0084
www.quellan.com

APPLICATIONS

ACTIVE CABLES:

- SFP+ Active Cables
 - 10GBASE-CR (10G Ethernet over Copper Cable)
 - 8G Fibre Channel
 - FCoE (Fibre Channel over Ethernet)
- QSFP Active Cables
 - 40GBASE-CR (40G Ethernet)
 - InfiniBand (QDR)
- Proprietary High-Speed Interconnects

LINE CARDS & SWITCH CARDS:

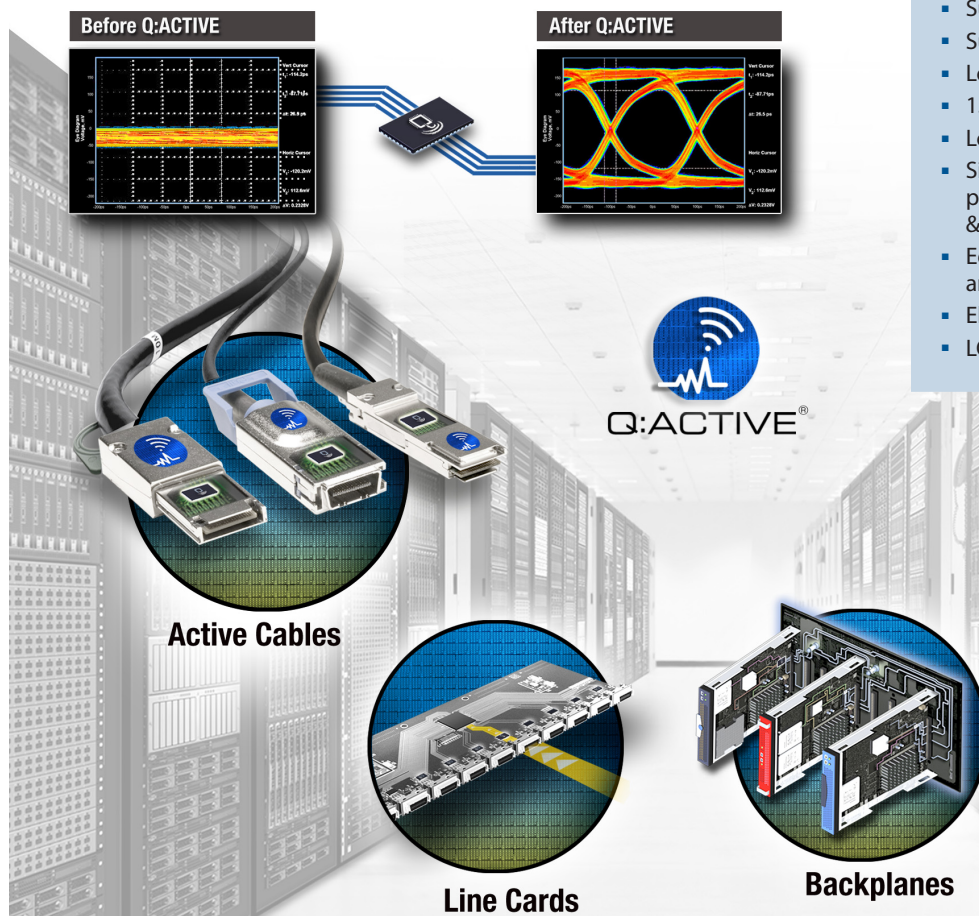
- 10GBASE-KR (10G Backplane Ethernet)
- InfiniBand (QDR)
- Proprietary High-Speed Interconnects

BACKPLANES:

- 10GBASE-KR (10G Backplane Ethernet)
- InfiniBand (QDR)
- Proprietary High-Speed Backplanes

FEATURES

- Supports data rates up to 11.1 Gbps
- Supports 64b/66b encoded data
- Low power (135mW per channel)
- 1.2V supply voltage
- Low latency (<500ps)
- Single channel equalizer in 3mm x 3mm QFN package for straight route-through architecture & simplified routing
- Equalizer boost is pin selectable and programmable
- Electrical idle preservation
- LOS support



QLX™
LANE EXTENDERS