QSFP+ Active Optical Cable Assemblies Pass Infiniband Compliance Testing

FCI has developed a QSFP+ based (quad small form-factor pluggable) active optical cable assembly that meets Infiniband® Compliance Testing requirements. The XLerate™ High Speed I/O active optical cable assembly is fully compliant to the Infiniband FDR (Fourteen Data Rate - 14 Gb/s per channel) specification, and is now on the Infiniband Trade Association (IBTA) Integrator's List.

The XLerate-4X QSFP+ FDR cables are used in applications that require greater aggregate bandwidth of up to 56Gb/s, exceeding the capability of QDR QSFP+ cables that can only deliver 40Gb/s aggregate bandwidth with using 10Gb/s signals per channel. The XLerate-4X QSFP+ FDR cables from FCI are available in both direct attach copper (DAC) as well as active optical variants.

"The independent verification that FCI's XLerate High Speed I/O cable assemblies meet Infiniband performance specifications validates the robustness of our cable terminations and manufacturing processes, established quality systems, and internal cable test procedures," said Rob Poort, General Manager Optical Solutions Group at FCI.

The XLerate-4X QSFP+ cables increase linear PCB board port signal density to meet emerging industry bandwidth requirements of 56 Gb/s per port capability as defined by the Infiniband QDR and FDR standard. The connector interface and EEPROM are fully compliant to the SFF-8436 specification and these QSFP+ cables deliver four times the port bandwidth than the SFP+ systems deliver. The XLerate-4X QSFP+ Series is particularly well suited for high transactional systems that are typically deployed in data center, networking and high performance computing applications.

The XLerate-4X QSFP+ Series consists of an SMT 38-position edge card connector

(10Gb compliant), a PCB-mounted EMI metal cage, a diecast heat sink with mounting clip and copper-based passive and active optical cable assemblies.

These cost-effective cable solutions are ideal for high performance computing applications where the Infiniband reliability and low latency features are key considerations.

For additional information about FCI's XLerate High Speed I/O Solutions, please visit the dedicated microsite, www.fciconnect.com/highspeedio [1].

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Links:
[1] http://www.fciconnect.com/highspeedio