

CFP8 – First Connector in the World for 400Gbps Ethernet

Munich, July 2017 – Yamaichi Electronics is a market leader for CFP high-speed connectors for hot-pluggable optical transceiver form factors to enable 100 Gbps and 400 Gbps applications.

Yamaichi Electronics has developed a new connector for the recent CFP8 specification for 400 Gbps applications. It is compliant with the CFP MSA Multi-Source Agreement. This CFP8 connector is one of the few connectors on the world market able to achieve the transmission rate of 400 Gbps. The final CFP8 specification was officially released from CFP MSA in March 2017.

The CFP8 has the same size as the CFP2, but its performance is 4 times higher, achieving 400 Gbps instead of 100 Gbps. The CFP8 connector configurations supported are 25 Gbps x 16 channels, 50 Gbps x 8 channels, or 100 Gbps x 4 channels.

The pin count is 124 pins. One of the most challenging achievements of Yamaichi Electronics was the narrow pitch of 0.5 mm. The pitch of the CFP2 connector is 0.6 mm. Even at 4 times the transmission speed of CFP2, the CFP8 connector excels through a smaller contact pitch.

The mechanical kit of the CFP series consists of cage, connector cover, heat sink and in some cases a clip to fasten the heatsink to the cage. The CFP2 mechanism uses a clip to hold the heatsink. Like CFP4, CFP8 has a clipless mechanism. The cage features a hook on the top which slides into the

heatsink to secure it. The mechanical kit of CFP8 uses the same mechanism as the CFP4.

Yamaichi Electronics has already launched a complete range of CFP, CFP2, CFP2 56Gbps and CFP4 connector systems based on the MSA specification and supporting major customers' 100 G applications. Now the CFP8 is in mass production at Yamaichi Electronics and fully available.

The CFP MSA has already started studying the next 400 G form factor, CFP16. The details are currently under discussion. And of course, Yamaichi Electronics will continue to support the next design generation.

About Yamaichi Electronics

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems. Their reliability and functional dependability are absolutely essential for the success of the overall project. Yamaichi Electronics established themselves on the world market very quickly as a manufacturer of high-quality, reliable components for demanding applications in various markets and applications: semiconductor, industrial automation, automotive, data networking, measurement & testing, medical, mobile computing, embedded computing, and others.

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