

Title: **Breakout 100G (4x25Gb) port to 10x10Gb Ethernet Gearbox with LineSpeed™ Flex Multi-Link Gearbox (MLG)**

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VALUE PROPOSITION

The MoSys MSH322 Multi-Link Gearbox (MLG) device supports dense 10 x 10Gb Ethernet port breakout from a single 100G switch, ASIC, or FPGA port. By utilizing the 10GbE Mux/Demux capability defined by the Optical Internetworking Forum (OIF) in its MLG standard, the full bandwidth of the 100G port can be maintained. This is illustrated in the figure below, where the 100G “host” port is expanded to ten 10GbE (SFP+) links. The MSH322 also includes an optional 4 x 25G Retimer function, which can be used to support 25GbE (SFP28) links with the same device.

KEY FEATURES & BENEFITS

- Maintains 100G port bandwidth while supporting 10 Ports of 10GbE (SFP+)
- Support for 4x25GbE modules (SFP28) in same footprint with Optional Retimer Mode
- Supports multiple independent 10GbE or 25GbE Links (i.e. w/ frequency offset)
- Supports “Synchronous Ethernet” clocking and timing structures
- Faster system Bring-up with Pre-Packaged and validated device configurations
- **Production ready at \$50 in volume**

