

On z15, RoCE Express2 and 2.1 features support 63 Virtual Functions per port (126 VFs per feature).

### 10GbE RoCE Express2.1

10GbE RoCE Express2.1 (FC 0432) is installed in the PCIe+ I/O drawer and is supported on IBM z15 servers. The 10GbE RoCE Express2.1 is a native PCIe feature. It does not use a CHPID and is defined by using the IOCP **FUNCTION** statement or in the hardware configuration definition (HCD).

**Switch configuration for RoCE Express2.1:** If the IBM 10GbE RoCE Express2.1 features are connected to 10GbE switches, the switches must meet the following requirements:

- ▶ Global Pause function enabled
- ▶ Priority flow control (PFC) disabled
- ▶ No firewalls, no routing, and no IEDN

The 10GbE RoCE Express2.1 feature does not support auto-negotiation to any other speed and runs in full duplex mode only.

10GbE and 25GbE RoCE features should not be mixed in a z/OS SMC-R Link Group. Mixing same speed RoCE features in the same z/OS SMC-R link group is allowed.

The maximum supported unrepeatable distance, point-to-point, is 100 meters (328 feet). A client-supplied cable is required. Two types of cables can be used for connecting the port to the selected 10GbE switch or to the 10GbE RoCE Express2 feature on the attached server:

- ▶ OM3 50-micron multimode fiber optic cable that is rated at 2000 MHz-km that ends with an LC Duplex connector, which supports 70 meters (229 feet)
- ▶ OM4 50-micron multimode fiber optic cable that is rated at 4700 MHz-km that ends with an LC Duplex connector, which supports 100 meters (328 feet)

The 10GbE RoCE Express2.1 feature uses SR optics and supports the use of a multimode fiber optic cable that ends with an LC Duplex connector. Both point-to-point connections and switched connections with an enterprise-class 10GbE switch are supported.

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### 25GbE RoCE Express2

25GbE RoCE Express2 (FC 0430) is installed in the PCIe I/O drawer and is supported on IBM z15 servers. The 25GbE RoCE Express2 is a native PCIe feature. It does not use a CHPID and is defined by using the IOCP **FUNCTION** statement or in the hardware configuration definition (HCD).

The 25GbE RoCE Express2 feature uses SR optics and supports the use of a multimode fiber optic cable that ends with an LC Duplex connector. Both point-to-point connections and switched connections with an enterprise-class 25GbE switch are supported.

On z15, RoCE Express2 and 2.1 features support 63 Virtual Functions per port (126 VFs per feature).