

NAME

mlx5ib - Mellanox ConnectX-4 and ConnectX-4 LX based 100Gb, 50Gb, 40Gb, 25Gb and 10Gb network adapter driver

SYNOPSIS

To compile this driver into the kernel, place these lines in your kernel configuration file:

```
options COMPAT_LINUXKPI  
device mlx5  
device mlx5ib
```

To load the driver as a module at run-time, run this command as root:

```
kldload mlx5ib
```

To load the driver as a module at boot time, place this line in loader.conf(5):

```
mlx5ib_load="YES"
```

DESCRIPTION

The **mlx5ib** driver provides support for infiniband and Remote DMA over Converged Ethernet, RoCE, for PCI Express network adapters based on ConnectX-4 and ConnectX-4 LX.

For further hardware information and questions related to hardware requirements, see <http://www.mellanox.com/>.

For more information on configuring this device, see ifconfig(8).

HARDWARE

The **mlx5ib** driver supports 100Gb, 50Gb, 40Gb, 25Gb and 10Gb network adapters. ConnectX-4 supports: 10/20/25/40/50/56/100Gb/s speeds. ConnectX-4 LX supports: 10/25/40/50Gb/s speeds (and reduced power consumption):

- ⊕ Mellanox MCX455A-ECAT
- ⊕ Mellanox MCX456A-ECAT
- ⊕ Mellanox MCX415A-CCAT
- ⊕ Mellanox MCX416A-CCAT
- ⊕ Mellanox MCX455A-FCAT
- ⊕ Mellanox MCX456A-FCAT
- ⊕ Mellanox MCX415A-BCAT
- ⊕ Mellanox MCX416A-BCAT

- ⊕ Mellanox MCX4131A-GCAT
- ⊕ Mellanox MCX4131A-BCAT
- ⊕ Mellanox MCX4121A-ACAT
- ⊕ Mellanox MCX4111A-ACAT
- ⊕ Mellanox MCX4121A-XCAT
- ⊕ Mellanox MCX4111A-XCAT

SUPPORT

For general information and support, go to the Mellanox support website at: <http://www.mellanox.com/>.

If an issue is identified with this driver with a supported adapter, email all the specific information related to the issue to [<freebsd-drivers@mellanox.com>](mailto:freebsd-drivers@mellanox.com).

SEE ALSO

`mlx5en(4)`, `ifconfig(8)`

HISTORY

The **mlx5ib** device driver first appeared in FreeBSD 12.x.

AUTHORS

The **mlx5ib** driver was written by Mellanox Technologies [<freebsd-drivers@mellanox.com>](mailto:freebsd-drivers@mellanox.com).