

Thank you for purchasing **MiLAN**'s Gigabit Interface Converter (GBIC). This release note applies only to the following models.

MiLAN Part Numbers:

- MIL-GBIC-SX: 1000BaseSX (SC type connector) GBIC module, multi-mode, 2km
- MIL-GBIC-LX10: 1000BaseLX (SC type connector) GBIC module, single-mode, 10km
- MIL-SFP-SX: 1000BaseSX (LC type connector) SFP module, multi-mode, 2km
- MIL-SFP-LX10: 1000BaseLX (LC type connector) SFP module, single-mode, 10km

This Release Note describes how to install, remove, and maintain Gigabit Interface Converters (GBICs).

Caution: Unnecessary removal/insertion of a GBIC could lead to premature failure of the GBIC. A GBIC has an approximate lifetime of 100 to 500 removals/insertions.

GBIC Installation

Caution: When removing or inserting a GBIC, it is recommended to wear an ESD wrist strap.

Note: GBICs are hot-swappable.

To install a GBIC, perform these following steps:

- Step 1 Remove the GBIC from its protective packaging.
- Step 2 Verify that the GBIC is the correct type for your network by checking the part number. The number indicates whether it is 1000BaseSX (multi-mode), 1000BaseLX (single-mode).
- Step 3 Grip the sides of the GBIC with your thumb and forefinger; insert the GBIC into the GBIC bay.
Note: For SFP GBICs, keep the release arm in up position and insert the module into the SFP GBIC bay.
- Step 4 Slide the GBIC into the bay until you hear a click. The click indicates the GBIC is locked into the bay.
- Step 5 When you are ready to attach the fiber-optic cable, remove the rubber plugs from the GBIC and save for future use.

GBIC Removal

Caution: When removing or inserting a GBIC, it is recommended to wear an ESD wrist strap.

Note: GBICs are hot-swappable.

To remove a GBIC, perform these following steps:

- Step 1 Disconnect the fiber-optic cable from the front of the GBIC.
- Step 2 Release the GBIC from the bay by simultaneously squeezing the plastic tabs (one on each side of the GBIC) and pull gently towards you.
Note: For SFP GBICs, locate the release arm at the front of the GBIC and swing the release arm down. Pull the arm gently towards you; this will release the locking mechanism on the bottom of the GBIC.
- Step 3 Slide the GBIC out of the bay.
- Step 4 Install the rubber plugs back into the GBIC optical bores, and place the GBIC in anti-static protective packaging.

GBIC Care and Handling

Follow these GBIC care and handling guidelines:

- GBICs are static-sensitive. To prevent ESD damage, follow your normal board and component handling procedures.
- GBICs are dust-sensitive. When the GBIC is stored or when a fiber-optic cable is not plugged in, always keep plugs in the GBIC optical bores.
- The most common source of contaminants in the optical bores is debris picked up on the ferrules of the optical connectors. Use an alcohol swab or Kim-Wipe to clean the ferrules of the optical connector.

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