

613-50515-00 Rev B



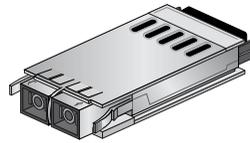
AT-G8LX Series GBIC Transceivers Installation Guide

Overview

The AT-G8LX Series GBIC Transceivers provide 1000Base-LX connectivity over single-mode fiber optic cable for Allied Telesis networking products.

Verifying Package Contents

Ensure that the correct component and installation instructions are included in your package. If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

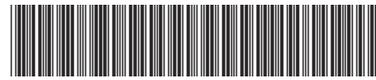


Cabling Specifications

| Model | Maximum Distance | Type of Fiber Optic Cable |
|-----------|------------------|---------------------------------|
| AT-G8LX10 | 10 km | 9/125 μ m Single-Mode Fiber |
| AT-G8LX25 | 25 km | 9/125 μ m Single-Mode Fiber |
| AT-G8LX40 | 40 km | 9/125 μ m Single-Mode Fiber |
| AT-G8LX70 | 70 km | 9/125 μ m Single-Mode Fiber |

Fiber Optic Port Specifications

| Model | Wave-length | Optical Output Power (dBm) | | | Optical Input Power (dBm) | |
|-----------|-------------|----------------------------|------|------|---------------------------|------|
| | | Min. | Avg. | Max. | Min. | Max. |
| AT-G8LX10 | 1310 | -9.0 | - | -3.0 | -20.0 | -3.0 |
| AT-G8LX25 | 1310 | -4.0 | - | 1.0 | -21.0 | -3.0 |
| AT-G8LX40 | 1550 | -4.0 | - | 1.0 | -21.0 | -3.0 |
| AT-G8LX70 | 1550 | -3.0 | - | 2.0 | -23.0 | -3.0 |



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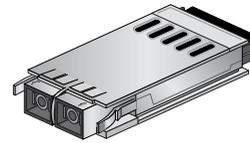
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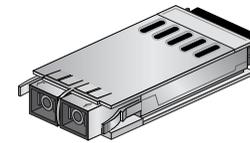
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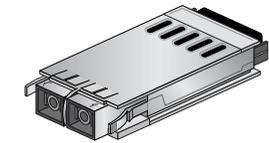
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| AT-G8LX70 | 1550 | -3.0 | - | 2.0 | -23.0 | -3.0 |

| |
|---|
|  Laser Class 1 laser product. Do not stare into the laser beam. |
| Note A transceiver must be connected to another transceiver or fiber optic port that has similar operating characteristics. |
| Note The AT-G8LX Series GBIC Transceivers can be hot-swapped. You do not need to power off the networking device when installing or replacing a GBIC transceiver. |

Installing an AT-G8LX Series GBIC Transceiver

To install an AT-G8LX Series GBIC Transceiver, perform the following procedure:

- Remove the transceiver from the shipping package.

| |
|---|
|  Caution The transceiver can be damaged by static electricity. Be sure to observe all standard electrostatic discharge (ESD) precautions. |
| <ol style="list-style-type: none"> Slide the transceiver into the GBIC slot on the Allied Telesis networking device. Remove the dust cover from the dual SC connector on the GBIC module. Connect the fiber optic data cables to the dual SC connector on the module. |
| Note When connecting fiber optic cables to a GBIC module, be sure that the cable connected to the RX (receive) port on the GBIC is connected to the transmitter port on the remote fiber optic port, and that the TX (transmit) port is connected to the receiver port on the remote fiber optic port. For information on the transceiver port LEDs, refer to the appropriate installation guide. |

This product meets the following standards.

| U.S. Federal Communications Commission |
|---|
| Radiated Energy Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment. |

| Industry Canada |
|---|
| This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. |

RFI Emissions: FCC Class A, EN 55022 Class A, VCCI Class A
Immunity: EN 55024
Electrical Safety: UL 60950-1 (cUL-us), EN 60950-1, EN 60825

| |
|---|
|  Laser Class 1 laser product. Do not stare into the laser beam. |
| Note A transceiver must be connected to another transceiver or fiber optic port that has similar operating characteristics. |
| Note The AT-G8LX Series GBIC Transceivers can be hot-swapped. You do not need to power off the networking device when installing or replacing a GBIC transceiver. |

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| Note When connecting fiber optic cables to a GBIC module, be sure that the cable connected to the RX (receive) port on the GBIC is connected to the transmitter port on the remote fiber optic port, and that the TX (transmit) port is connected to the receiver port on the remote fiber optic port. For information on the transceiver port LEDs, refer to the appropriate installation guide. |

This product meets the following standards.

| U.S. Federal Communications Commission |
|---|
| Radiated Energy Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment. |

| Industry Canada |
|---|
| This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. |

RFI Emissions: FCC Class A, EN 55022 Class A, VCCI Class A
Immunity: EN 55024
Electrical Safety: UL 60950-1 (cUL-us), EN 60950-1, EN 60825

| |
|---|
|  Laser Class 1 laser product. Do not stare into the laser beam. |
| Note A transceiver must be connected to another transceiver or fiber optic port that has similar operating characteristics. |
| Note The AT-G8LX Series GBIC Transceivers can be hot-swapped. You do not need to power off the networking device when installing or replacing a GBIC transceiver. |

Installing an AT-G8LX Series GBIC Transceiver

To install an AT-G8LX Series GBIC Transceiver, perform the following procedure:

- Remove the transceiver from the shipping package.

| |
|---|
|  Caution The transceiver can be damaged by static electricity. Be sure to observe all standard electrostatic discharge (ESD) precautions. |
| <ol style="list-style-type: none"> Slide the transceiver into the GBIC slot on the Allied Telesis networking device. Remove the dust cover from the dual SC connector on the GBIC module. Connect the fiber optic data cables to the dual SC connector on the module. |
| Note When connecting fiber optic cables to a GBIC module, be sure that the cable connected to the RX (receive) port on the GBIC is connected to the transmitter port on the remote fiber optic port, and that the TX (transmit) port is connected to the receiver port on the remote fiber optic port. For information on the transceiver port LEDs, refer to the appropriate installation guide. |

This product meets the following standards.

| U.S. Federal Communications Commission |
|---|
| Radiated Energy Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment. |

| Industry Canada |
|---|
| This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. |

RFI Emissions: FCC Class A, EN 55022 Class A, VCCI Class A
Immunity: EN 55024
Electrical Safety: UL 60950-1 (cUL-us), EN 60950-1, EN 60825

| |
|---|
|  Laser Class 1 laser product. Do not stare into the laser beam. |
| Note A transceiver must be connected to another transceiver or fiber optic port that has similar operating characteristics. |
| Note The AT-G8LX Series GBIC Transceivers can be hot-swapped. You do not need to power off the networking device when installing or replacing a GBIC transceiver. |

Installing an AT-G8LX Series GBIC Transceiver

To install an AT-G8LX Series GBIC Transceiver, perform the following procedure:

- Remove the transceiver from the shipping package.

| |
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|  Caution The transceiver can be damaged by static electricity. Be sure to observe all standard electrostatic discharge (ESD) precautions. |
| <ol style="list-style-type: none"> Slide the transceiver into the GBIC slot on the Allied Telesis networking device. Remove the dust cover from the dual SC connector on the GBIC module. Connect the fiber optic data cables to the dual SC connector on the module. |
| Note When connecting fiber optic cables to a GBIC module, be sure that the cable connected to the RX (receive) port on the GBIC is connected to the transmitter port on the remote fiber optic port, and that the TX (transmit) port is connected to the receiver port on the remote fiber optic port. For information on the transceiver port LEDs, refer to the appropriate installation guide. |

This product meets the following standards.

| U.S. Federal Communications Commission |
|---|
| Radiated Energy Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment. |

| Industry Canada |
|---|
| This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. |

RFI Emissions: FCC Class A, EN 55022 Class A, VCCI Class A
Immunity: EN 55024
Electrical Safety: UL 60950-1 (cUL-us), EN 60950-1, EN 60825