



# Gigabit Ethernet GBIC Transceiver

**1000Base-ZX (SC) Single-Mode Port, 80 km**

Model  
545846

**Optimize your network flexibility while you maintain high performance levels.**

The new line of INTELLINET NETWORK SOLUTIONS™ Gigabit Interface Converter (GBIC) Transceivers provides customers with a combination of performance and affordability. These GBIC modules come in a metal housing that reduces electromagnetic interference and increases their durability.

## High Performance over Long Distance

This high-performance transceiver supports Gigabit speeds on single-mode fiber for distances of up to 80 kilometers (49.6 miles) using 9/125  $\mu$ m Fiber cable.

## Multi-Vendor Compatible

Meets GBIC standards for use with any GBIC-compliant slot. Use the transceiver with any LAN switch in your network, as long as it supports the GBIC standards.

## Hot-Pluggable

No need to power down your LAN switch in order to install or remove the transceiver. This makes it very convenient and easy for you to make adjustments to your network that allow your business to keep pace with the changing demands of the market.

## Lifetime Warranty

Strict manufacturing standards ensure the highest quality in all INTELLINET NETWORK SOLUTIONS products. All items carry a full Lifetime Warranty — the strongest quality commitment anyone can make.



**INTELLINET NETWORK SOLUTIONS**  
Gigabit Interface Converters (GBIC) Product Line Summary

**LIFETIME  
WARRANTY**

Model	Fiber Type	Connector Type	Wave-length	Mode	Cable Length	Fiber Length						
						100 m 328 ft.	220 m 722 ft.	550 m 1,804 ft.	10 km 6.2 mi.	20 km 12.4 mi.	40 km 24.8 mi.	80 km 49.6 mi.
Mini-GBIC	545006	1000Base-SX	LC	850 nm	Multi		—	—				
	545013	1000Base-LX	LC	1310 nm	Single				—			
	545075	1000Base-LX	LC	1310 RX 1550 TX	Single				—			
	545068	1000Base-LX	LC	1550 RX 1310 TX	Single				—			
	545020	1000Base-LX	LC	1310 nm	Single					—		
	545037	1000Base-LX	LC	1550 nm	Single					—		
	545044	1000Base-ZX	LC	1550 nm	Single						—	
GBIC	521437	1000Base-T	RJ-45	n/a	n/a	—						
	545808	1000Base-SX	SC	850 nm	Multi		—					
	545815	1000Base-LX	SC	1310 nm	Single			—				
	545822	1000Base-LX	SC	1310 nm	Single				—			
	545839	1000Base-LX	SC	1550 nm	Single				—			
	545846	1000Base-ZX	SC	1550 nm	Single					—		

**Model  
545846**

## Features

- Data transfer rate: 1000 Mbps
- One 1000Base-ZX single-mode Fiber SC duplex port
- Distance support: up to 80 km (9/125 µm cable)
- Compliant with GBIC Transceiver MSA specifications
- GBIC standard form factor
- Wavelength: 1550 nm
- Supports full duplex operation
- Supports hot-plugging
- Lifetime Warranty

## Specifications

### STANDARDS

- IEEE 802.3z (Fiber Optic Gigabit Ethernet)

### GENERAL

- Media support: 1000Base-ZX single-mode 9/125 µm Fiber
- Connector: Fiber SC duplex port, 1000Base-ZX
- Distance: 80 km
- Wavelength: 1550 nm
- Fiber power budget
  - Maximum TX power: 9 dB
  - Minimum TX power: 15 dB
  - Sensitivity: -28 dB
  - Power budget: 43 dB
- Design: GBIC (Gigabit Interface Converter), 1.25 Gbps
- Certifications: FCC Class A, CE Mark, RoHS

### POWER

- Power requirement: 3.3 V
- Power consumption: 1.0 Watt (maximum)

### ENVIRONMENTAL

- Dimensions: 65 (L) x 32 (W) x 12 (H) mm (2.6 x 1.3 x 0.5 in.)
- Weight: 51 g (1.8 oz.)
- Operating temperature: 0 – 70°C (32 – 158°F)
- Operating humidity: 10 – 85% RH, non-condensing
- Storage temperature: -40 – 85°C (-40 – 185°F)

### PACKAGE CONTENTS

- Gigabit Ethernet GBIC Transceiver

For more information on INTELLINET NETWORK SOLUTIONS products, consult your local dealer or visit [www.intellinet-network.com](http://www.intellinet-network.com).

  
**INTELLINET**  
NETWORK SOLUTIONS  
BRINGING NETWORKS TO LIFE

Copyright © INTELLINET NETWORK SOLUTIONS

All names of products or services mentioned herein are trademarks or registered trademarks of their respective owners. Distribution and reproduction of this document, and use and disclosure of the contents herein, are prohibited unless specifically authorized.

INT-545846-DS-0906-01