



# AX/4000

# Ethernet 10/100BASE-T Interface

## Overview

This combination port interface and faceplate provides a physical Ethernet connection from the AX/4000 Version II or mAX test modules to an Ethernet HUB or Ethernet NIC. This electrical interface provides RJ-45 HUB and NIC connectors and uses 10/100BASE-T line coding, with auto negotiation or manual interface configuration.

## AX/4000 Installation

The port interface plugs into mating connectors on the AX/4000 test module. Two screws attach the faceplate to the front of the mainframe or portable chassis. The test module provides power to the port interface.

## LED Indicators

The faceplate has eleven LED indicators. Refer to the faceplate photo for a description of each LED function.

## Software Control

The port interface may be controlled via the AX/4000 Windows®-or UNIX®-based graphical interface, or through the AX/4000 C-function library or Tcl extensions. Software control functions are listed below.

## Setup

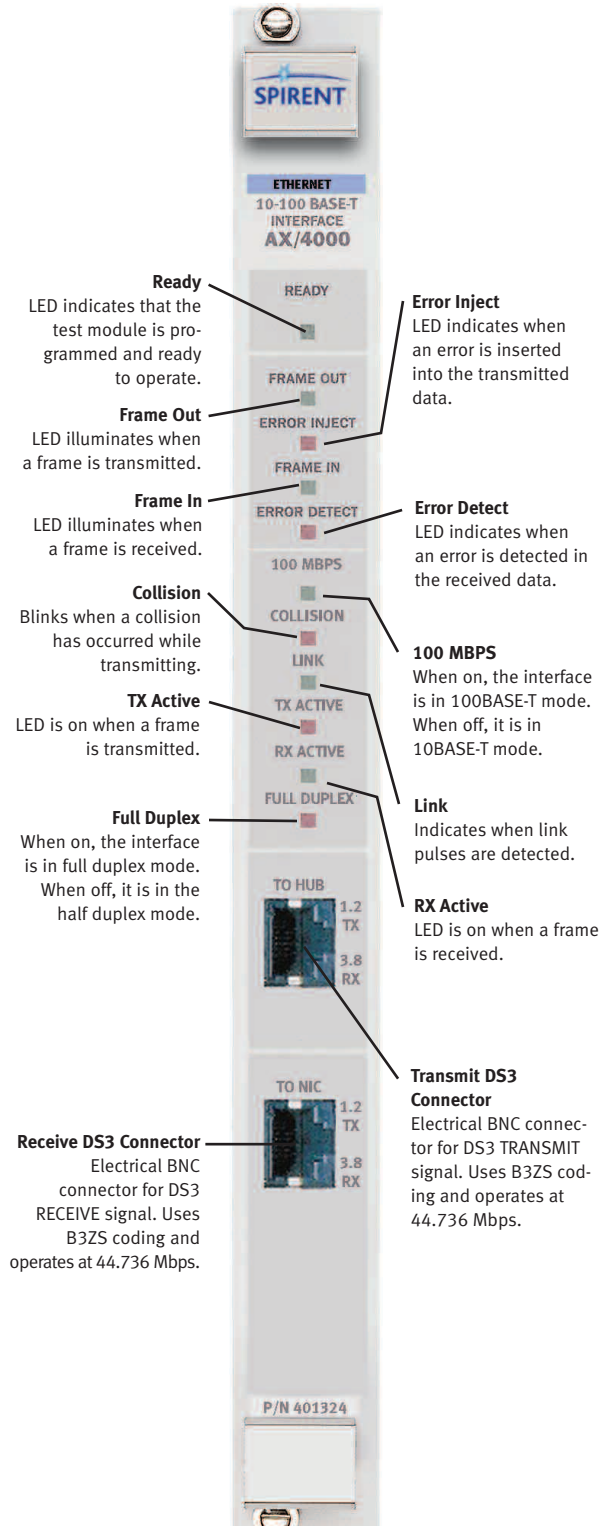
The Operation Mode determines the interface data path for the AX/4000. Normal mode is used to generate data from the AX/4000 to the external equipment, and to analyze incoming data from the external equipment. Diagnostic Loopback mode provides an internal transmit to receive loopback to analyze generated data without requiring an external loopback cable. Different loopback paths are implemented, depending on whether the interface is operating in the 10 Mbps or 100 Mbps mode.

## Hardware Specifications

### AX/4000 Test Modules Supported

- 1 Gbps mAX Generator Module (P/N 401401L)
- 1 Gbps mAX Generator Module (P/N 401401H)
- 1 Gbps mAX Generator/Analyzer Module (P/N 401400L)
- 1 Gbps mAX Generator/Analyzer Module (P/N 401400H)

*Note: Ethernet technology license required for these modules.*



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### Connectors

- Connector Type: RJ-45
- Data Rate: 10/100 Mbps with 4B/5B coding for 100 Mbps
- Coding: Manchester for 10BASE-T and MLT-3 for 100BASE-T
- Output: Differential 802.3 compliant
- Input: Differential 802.3 compliant
- Impedance: 100 ohms

### Software Control Functions

#### Operation Mode

- Normal
- Diagnostic loopback

#### Interface Activity Status LEDs

- 100 Mbps
- Collision
- Link
- TX
- RX
- Full duplex

#### Interface Statistics

- TX frames
- Max. collision frames
- Late collision frames
- Single collision frames
- Multiple collision frames
- Total collisions
- Total deferrals
- Short frames

### Setup Options

- Auto-negotiation or manual
- Manual options
  - Data rate: 100 Mbps to 10 Mbps
  - Data flow: Half or full duplex

### Ordering Information

Ethernet 10/100BASE-T Interface (P/N 401324)

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