



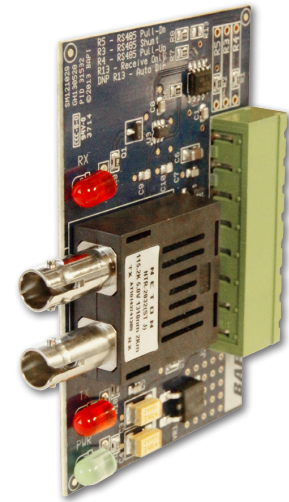
## Overview

BAPI recommends fiber optic cable for HVAC communications networks that travel between buildings.

The SOX - Fiber Optic Transceiver converts the RS-485 data from the copper network to a fiber optic signal for transmission to other buildings. A SOX in the other building converts the fiber optic signal back into RS-485 for the remote copper network.

The SOX module accepts single-mode fiber (9/125um) cable on standard ST connectors. The copper RS-485 connection is made on the 8-pole plug along with the power and ground connections. The SOX also plugs into the communications repeater backplanes (RBP4, RBP8, SRBP).

A green power LED indicates that 12 VDC is present to the module. Red LEDs flash when data is transmitted or received.



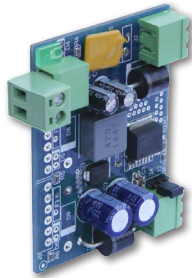
**SOX - RS-485 Fiber Optic Transceiver**

<b>Part Number</b>	<b>Description</b>	<b>List Price</b>
<b>BA/SOX RS-485</b> .....	Fiber Optic Transceiver (for single-mode fiber cable).....	\$315

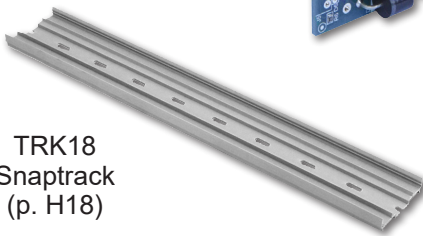
Submittal datasheets without List Prices are available on our website at [www.bapihvac.com](http://www.bapihvac.com)

## Associated Products

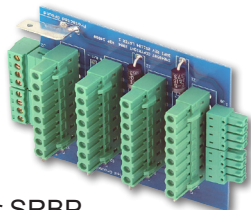
3324VC Voltage Converter  
(p. H8)



TRK18 Snaptrack  
(p. H18)

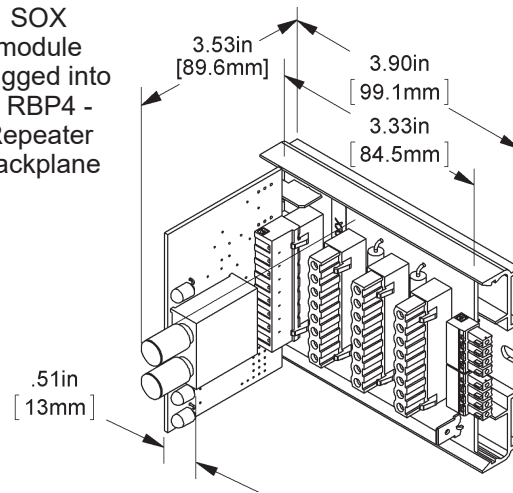


RBP4, RBP8 or SRBP  
Repeater Backplanes  
(p. H30-32)



## Specifications

SOX module plugged into a RBP4 - Repeater Backplane



**Power Voltage:** 7 to 18 VDC

**Power Current:** 50 mA max.

**Communications Rates:**

Auto-sensing 1200 to 115.2K Auto Baud

**Optical Network Length:**

65,600 ft (20,000 meters)

**RS-485 Network Length:** 4,000 ft (1.2Km)