

## How to Interface an MX-6p-PoE 1000BaseT Copper SFP Port with a 10/100BaseTX Device

### 1. Overview

The MX-6p-PoE is a (6) port switch with (4) ports of 10/100BaseTX and (2) 1 GB SFP ports. The SFP ports may be optical 1000BaseX or copper 1000BaseT.

Below is a diagram which illustrates how to adapt one of the SFP ports to interface with a 10/100BaseTX device. This enables the MX-6p-Poe to effectively provide (5) 10/100BaseTX ports and (1) 1GB SFP port.

An MTX-48-LX (3) port switch is used to provide the interface. Only the copper ports of this device are utilized. The MTX-48-LX copper ports operate at triple speed 10/100/1000BaseT. Therefore 1 of the copper ports can connect to a 100BaseTX device and the second copper port can connect to a 1000BaseT device.

As shown below, the 10/100BaseTX IP device connects to one of the MTX-48-LX copper ports and will connect up at 10/100BaseTX. The second MTX-48-LX copper port connects to the copper SFP-TX in the MX-6p-PoE and connects up at 1000BaseT.

Additionally, PoE power to the IP device can be provided to the 10/100BaseTX IP device by using the MTX-48-LX-PoE model.

### 2. Detail

