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SFP Field TAP

P1GSFPU_mini | 1.2.50

User Manual

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Introduction

This document describes the front panel, LED indications, interfaces, rear panel, rear switch, and installation procedure for the P1GSFP_mini. This portable network TAP series is ideal for 10/100/ and 1000MB copper network monitoring, 1000M fiber network monitoring, or copper to fiber media conversion. The innovative design allows this TAP to be easily installed into any copper or fiber network segment.

The P1GSFP_mini uses the USB connector for the monitor port. The USB port is the Aggregation of the two Copper ports or the two SFP ports.

Note: The P1GSFP_mini is not powered by the USB port

Additional Specifications

Dimensions (HxWxD): 1” x 2.6” x 5.1” (25.4mm x 66.04mm x 129.54mm)
Weight: 0.45 lbs (0.204 kg)
Ambient Temperature: 0C to +40C / +32F to +104F
Storage Temperature: -20C to +70C / -4F to +158F
Voltage: 5V Current (nominal): 0.8
Amps Maximum consumption: 4 Watts
Humidity: 0-90% non-condensing
USB3 data rate = 5Gb/s

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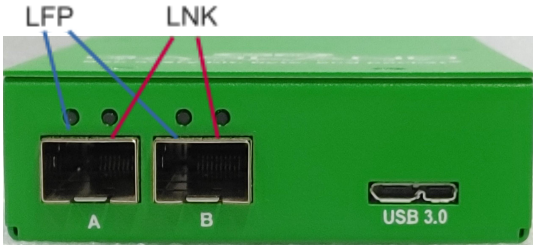
Panels

Front Panel

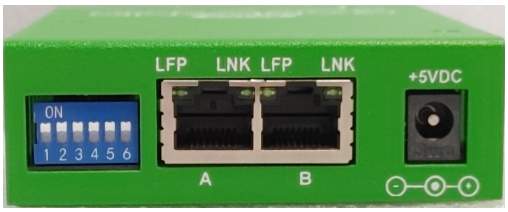


LED Indications when the Tap is configured for SFP to USB

Port A LFP	Green indicates LFP has occurred
Port A LNK	Link/Activity LED
Port B LFP	Green indicates LFP has occurred
Port B LNK	Link/Activity LED

***** The Copper LEDs on the rear panel are inactive in this configuration.

Rear Panel



LED Indications when the Tap is configured for Copper to USB

Port A LFP	Green indicates LFP has occurred
Port A LNK	Link/Activity LED
Port B LFP	Green indicates LFP has occurred
Port B LNK	Link/Activity LED

***** The SFP LEDs on the front panel are inactive in this configuration.

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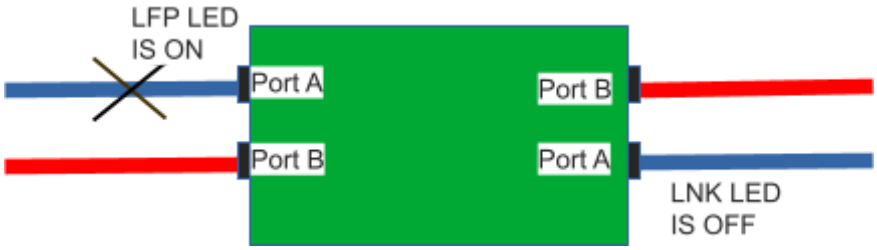
LED Indications when the Tap is configured for Copper to SFP Conversion



Port A LFP	Green indicates LFP has occurred
Port A LNK	Link/Activity LED
Port B LFP	Green indicates LFP has occurred
Port B LNK	Link/Activity LED

***** When LFP occurs the corresponding LNK LED for the other media port is off. For example, if Copper Port A is not linked when LFP is enabled then the LFP LED on Copper Port A is on and the Link LED for SFP Port A is off.

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Rear Panel Switch Settings

Port Speed	Switch 1 Speed 1	Switch 2 Speed 2	Switch 3 Auto Negotiation/ Duplex Setting	Switch 4 LFP Setting	Switch 5 Mode Setting	Switch 6 Mode Setting	Tap Mode
1G	UP	UP	UP = Auto	UP = Enabled	UP	UP	Copper to USB
100M	Down	UP	Down = Full Duplex	Down = Disabled	Down	Down	SFP to USB
10M	UP	Down			UP	Down	Copper to SFP
Sync Mode	Down	Down			Down	UP	Copper to SFP

* When the tap is in SYNC mode then DIP Switch 4's position is ignored and LFP is enabled.
* The P1GSFP_mini must be power cycled when the switch settings are modified.
* The P1GSFP_mini does not support Fail Close Mode.

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Installation Procedure

1. Unpack the device and place it near an AC outlet.

2. Utilizing the DIP switches (located on the reverse side of the unit) configure the P1GSFP_mini for the operating mode of your choice. Install network TAP into the live network. THIS STEP NEEDS TO BE DONE WITH NO POWER CONNECTED TO THE TAP. If using the P1GSFP_mini as a media converter proceed to step 6.

3. Using standard Ethernet cables, connect ports [A] and [B] (Auto MDIX) of the P1GSFP_mini between the two live network elements where monitoring is desired. If using SFPs ignore this step and proceed to step 4, otherwise proceed to step 5.

4. Insert the SFPs in ports [A] and [B] of the P1GSFP_mini then connect the correct fiber type between the two live network elements where monitoring is desired.

5. Connect the USB port to the monitoring tool for traditional traffic monitoring.

6. If configured for use as a media adaptor, connect standard Ethernet cables at the rear of the P1GSFP_mini then insert the SFPs and connect the correct fiber type.

7. Connect the power supply to the P1GSFP_mini and plug it into an available power source.

Note: The P1GSFP_mini is not powered by the USB port.

8. Anytime the configuration switches are changed the user must remove and then re-apply power for the changes to take effect.

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Media SFPs

Port Speed	Copper	SM Fiber	MM Fiber
10 Mbps / 100 Mbps	SFPTX	N/A	N/A
1 Gbps	SFPTX	SFPLX	SFPSX

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