SG70460

**4-Port 10/100/1000Base Switch
with (2) 1000Base SFP Slots**

User's Manual
v2.0

© **October 2016**
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1. Overview

The **SG70460** 4-Port 10/100/1000Base Switch supports two 10/100/1000Base copper ports and two 1000Base fiber optic SFP slots. The switch is designed with a switch controller and buffer memory that allows the two media types to operate smoothly. The two RJ-45 copper ports support 10/100/1000Mbps and Half-Duplex or Full-Duplex modes, while the two fiber optic SFP slots support 1000Mbps and Full-Duplex only. With an external power unit, the **SG70460** provides excellent stability and reliability.

2. Checklist

Before installing the **SG70460**, verify that the package contains the following:
1. (1) **SG70460** 4-Port Switch.
2. (1) AC-DC Power Adapter.
3. This User's Manual.

Please notify VERSITRON immediately if any of the aforementioned items are missing or damaged.

3. LED Descriptions

LED	Description
100	Lit when TP1/TP2 speed is 100Mbps
1000	Lit when TP1/TP2 speed is 1000Mbps
Link/Act	Lit when TP1/TP2 connection is good Blinks when TP1/TP2 data is transmitting
SFP1	Lit when SFP1 connection is good Blinks when SFP1 data is transmitting
SFP2	Lit when SFP2 connection is good Blinks when SFP2 data is transmitting
PWR	Lit when +5V power is applied

4. Installing the SG70460 Switch

1. Install a fiber optic SFP module into one of the SFP Slots.
2. Connect the fiber optic cable from the SFP module on the **SG70460** to the fiber network.
   NOTE: Confirm that the fibers are connected Transmitter to Receiver.
3. Connect a UTP cable from the TP network device to an RJ-45 port on the **SG70460**.
4. Connect the power adapter to the **SG70460** and check that the Power LED lights up.
   The TP Act and SFP LEDs will light when all cable connections are correct.

5. Technical Specifications

- **Standards:** IEEE 802.3z/AB 10/1001000Base-T
  1000Base-SX/LX/ZX
- **UTP Cable:** Cat.5e or Cat.6 cable up to 100m
- **Fiber Cable:** 1000SX: 50/125, 62.5/125µm multi-mode
  1000LX/ZX: 8/125, 9/125µm single-mode
- **Data Transfer Rate:** RJ-45 port: 10M, 100M, 1000Mbps
  SFP: 1000Mbps
- **LED Indicators:** TP 100, TP 1000, TP Link/Act, SFP1, SFP2, PWR
- **Duplex Modes:** RJ-45 port: Half/Full-Duplex auto-negotiation
  SFP: Full-Duplex mode
- **Power Requirements:** Input: 100 ~ 240VAC, 50/60Hz, Output: 5VDC, 2A
- **Ambient Temperature:** 0 ~ 50℃
- **Humidity:** 5% ~ 90%
- **Dimensions:** 1.06 x 4.84 x 3.35 inches （H×W×D）

6. Available Fiber Optic SFP Modules

Model	Speed (Mbps)	Wavelength	Media	Distance	Connector	TX Power	RX Sens	Temp
GBMM	1000	850nm	MMF	62.5µ: 220m 50µ: 550m	LC	-9.5 ~ -4	< -18	0 to 70° C
GB2MM	1000	1310nm	MMF	2km	LC	-9 ~ -1	< -19	0 to 70° C
GB10SM	1000	1310nm	MMF / SMF	MM 62.5µ: 220m MM 50µ: 550m SM 9µ: 10km	LC	-9.5 ~ -3	< -20	0 to 70° C
GB20SM	1000	1310nm	SMF	20km	LC	-4 ~ +1	< -24	0 to 70° C
GB40SM	1000	1550nm	SMF	40km	LC	-4 ~ +1	< -24	0 to 70° C
GB70SM	1000	1550nm	SMF	70km	LC	0 ~ +5	< -24	0 to 70° C
GB100SM	1000	1550nm	SMF	100km	LC	0 ~ +5	< -30	0 to 70° C
GB10SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	10km	LC	-3 ~ -9	< -21	0 to 70° C
GB10SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	10km	LC	-3 ~ -9	< -21	0 to 70° C
GB20SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	20km	LC	-3 ~ -8	< -23	0 to 70° C
GB20SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	20km	LC	-3 ~ -8	< -23	0 to 70° C
GB40SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	40km	LC	-3 ~ +2	< -23	0 to 70° C
GB40SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	40km	LC	-3 ~ +2	< -23	0 to 70° C
GB60SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	60km	LC	0 ~ +5	< -24	0 to 70° C
GB60SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	60km	LC	-2 ~ +4	< -25	0 to 70° C
GB80SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	80km	LC	-2 ~ +3	< -26	0 to 70° C
GB80SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	80km	LC	-2 ~ +3	< -26	0 to 70° C