SISGM1040-184D-LRT

12-Port Managed Industrial Ethernet Switch

Install Guide

33709 Rev B

Safety Warnings and Cautions

These products are not intended for use in life support products where failure of a product could reasonably be expected to result in death or personal injury. Anyone using this product in such an application without express written consent of an officer of Transition Networks does so at their own risk, and agrees to fully indemnify Transition Networks for any damages that may result from such use or sale.


Attention: this product, like all electronic products, uses semiconductors that can be damaged by ESD (electrostatic discharge). Always observe appropriate precautions when handling.


NOTE: Emphasizes important information or calls your attention to related features or instructions.


WARNING: Alerts you to a potential hazard that could cause personal injury.


CAUTION: Alerts you to a potential hazard that could cause loss of data, or damage the system or equipment.

SISGM1040-184D-LRT Install Guide - TN PN 33709 Rev. A

Record of Revisions

Rev	Date	Description of Changes
A	3/10/17	Initial release for software v1.00.
B	4/10/18	Update DoC and specifications.

Address comments on this product or manual to:

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tel: +1.952.941.7600 | toll free: 1.800.526.9267 | fax: 952.941.2322
sales@transition.com | techsupport@transition.com | customerservice@transition.com

Contents

Overview

The SISGM1040-184D-LRT is a full Gigabit Ethernet Switch, providing 12 Gigabit Ethernet ports for upgrading the existing network infrastructure to full gigabit speed. A full gigabit network provides a higher bandwidth than the legacy Fast Ethernet network and reduces the response time for time-sensitive applications. Armed with these powerful features, this Layer2+ Managed Switch is easy to prioritize, partition, and organize the network for higher reliability and quality services.

Package Checklist

Verify that the box contains the following items:

- ☐ One Managed Ethernet Switch
- ☐ Two Wall-mount Plates
- ☐ One DIN-Rail Clip
- ☐ Four M3 Screws (for wall mount plates & DIN Clip)
- ☐ One DC power terminal block
- ☐ One Power Supply (Optional)
- ☐ Eight RJ45 Ethernet port Dust Covers
- ☐ Four SFP Ethernet port Dust Covers
- ☐ One printed Quick Start Guide

Contact you sales representative if you have not received these items. Save the packaging for possible future use.

Features

- IEEE 802.3x flow control and back-pressure
- 9K Jumbo frames
- L2 wire-speed switching engine
- 8K MAC forwarding addresses
- Queues per port : 8
- Port Trunking and LACP
- Spanning tree (STP, RSTP & MSTP)
- Redundant Ring and Redundant Chain protection (<20ms)
- Port-based/tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Protocol-based VLAN
- Multicast, IGMP v1/v2/v3, proxy & snooping
- Multicast/Broadcast/Flooding Storm Control
- IEEE 802.1x access control
- SNMP v1, v2c and v3
- Port/VLAN mirroring
- Dual power input (12~58 VDC)
- Reverse power protection
- DIN-Rail and Wall mounting options
- IP30 Ingress Protection Rating

Safety Instructions

When a connector is removed during installation, testing, or servicing, or when an energized fiber is broken, a risk of ocular exposure to optical energy that may be potentially hazardous occurs, depending on the laser output power. The primary hazards of exposure to laser radiation from an optical-fiber communication system are:

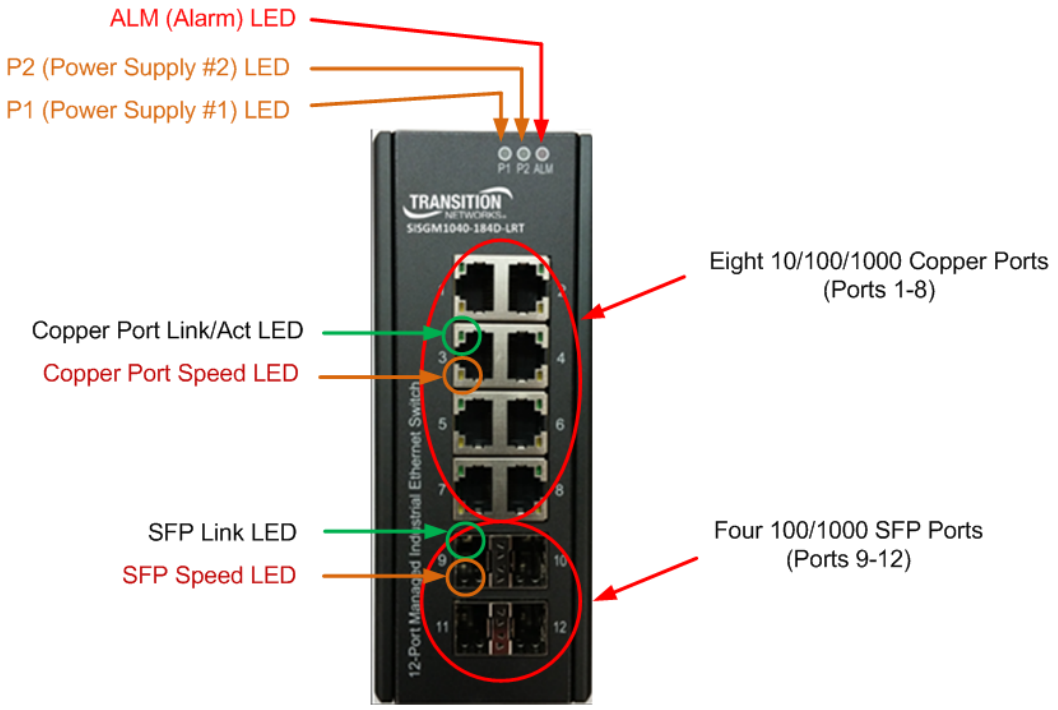
- Damage to the eye by accidental exposure to a beam emitted by a laser source.
- Damage to the eye from viewing a connector attached to a broken fiber or an energized fiber.

Specifications

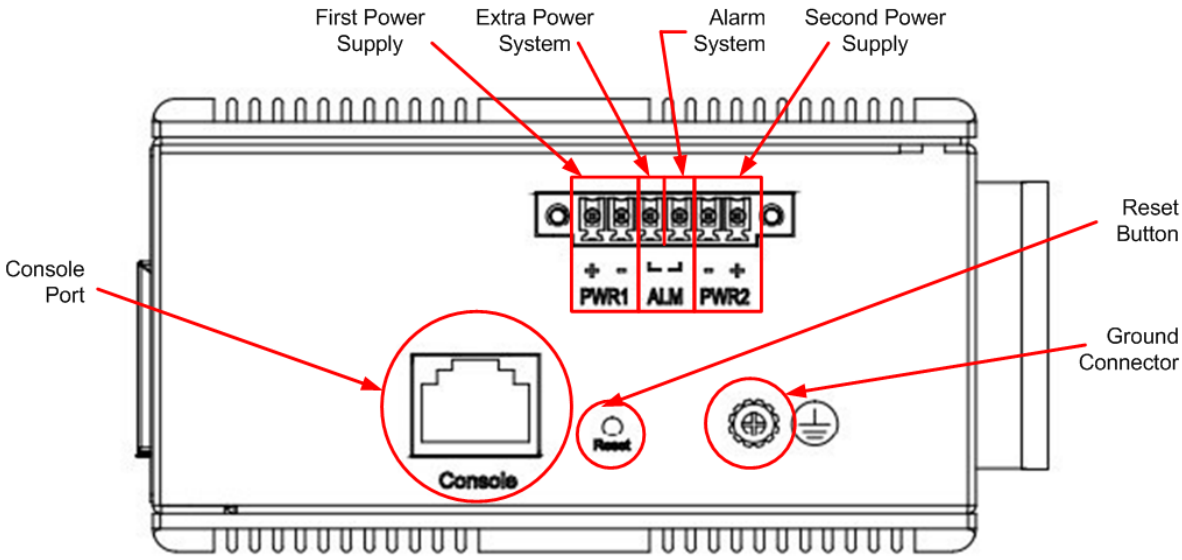
Item	Specification
Ethernet	
Copper RJ45 Ports	10/100/1000 Mbps speed auto-negotiation MDI/MDIX Auto-crossover
SFP (pluggable) Ports	100/1000Base SFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant Input Terminals; Reverse power protection
Input voltage range	12-58 VDC
Max. Power consumption	10.5W
Environmental and Compliances	
Operating temperature	-40 to +75°C (cold startup at -40°C)
Storage temperature	-40 to +85°C
Humidity	5 to 95% RH (non-condensing)
Mechanical	
Ingress protection	IP30
Dimensions (without DIN rail clip)	154 mm (H) x 109 mm (D) x 60 mm (W) 6.06 in. (H) x 4.29 in. (D) x 2.36 in. (W)
Weight	1056 g (2.32 lb.)
Installation options	DIN-Rail mounting or Wall mounting
MTBF	524950.1091 hrs.(Bellcore Calculation Method: PartsCount)
Switching Capacity	18Gbps
Forwarding Rate	17.857Mpps

Front and Top Panels

Front Panel



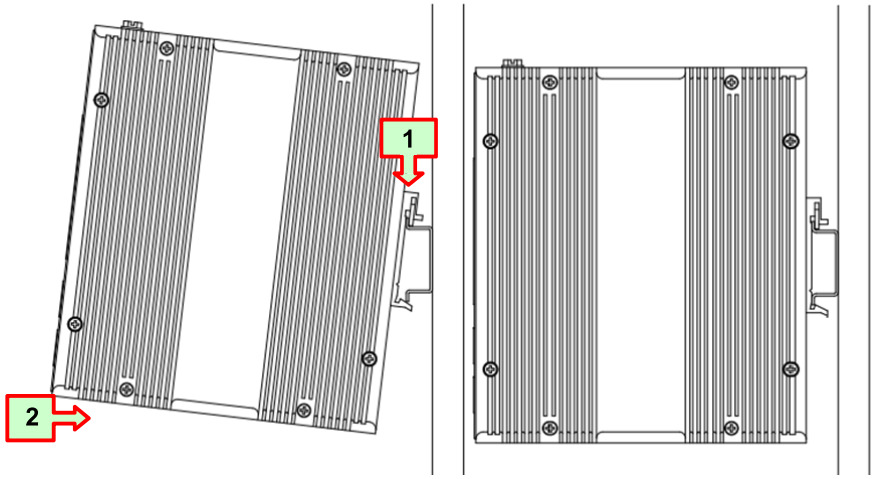
Top Panel



DIN-Rail Mounting

Mounting step:

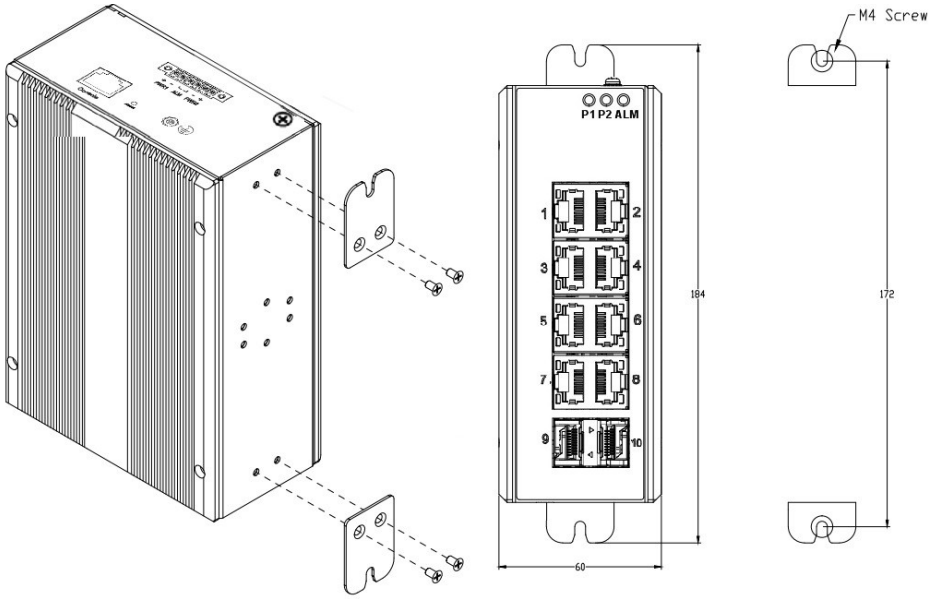
1. Screw the DIN-Rail bracket on with the bracket and screws in the accessory kit.
2. Hook the unit over the DIN-Rail.
3. Push the bottom of the unit towards the DIN-Rail until it snaps into place.



Wall Mounting

Mounting step:

1. Screw on the wall-mount plate with the plate and screws in the accessory kit.



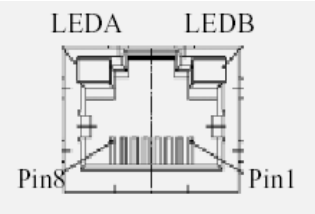
Ethernet Interface Connecting (RJ45 Ethernet)

The switch provides two types of electrical interfaces: RJ45 and optical (mini-GBIC).

Connecting the Ethernet interface via RJ45:

- To connect to a PC, use a straight-through or a cross-over Ethernet cable,
- To connect the SISGM1040-184D-LRT to an Ethernet device, use UTP (Unshielded Twisted Pair) or STP (Shielded Twisted Pair) Ethernet cables.

The pin assignment of RJ-45 connector is shown below.



Pin	Assignment
1,2	T/Rx+,T/Rx-
3,6	T/Rx+,T/Rx-
4,5	T/Rx+,T/Rx-
7,8	T/Rx+,T/Rx-

Ethernet Interface Connecting (Fiber, SFP)

For a 100 Mbps fiber port available, please prepare the LC connectors or SC connectors (with the use of an optional SC-to-LC adapter).

For the available 1000 Mbps fiber ports, use mini-GBIC SFPs. These accept plug in fiber transceivers that typically have an LC style connector. They are available with multimode, single mode, long-haul or special-application transceivers.

Warning: Never attempt to view optical connectors that might be emitting laser energy.
Do not power up the laser product without connecting the laser to the optical fiber and putting the cover in position, as laser outputs will emit infrared laser light at this point.

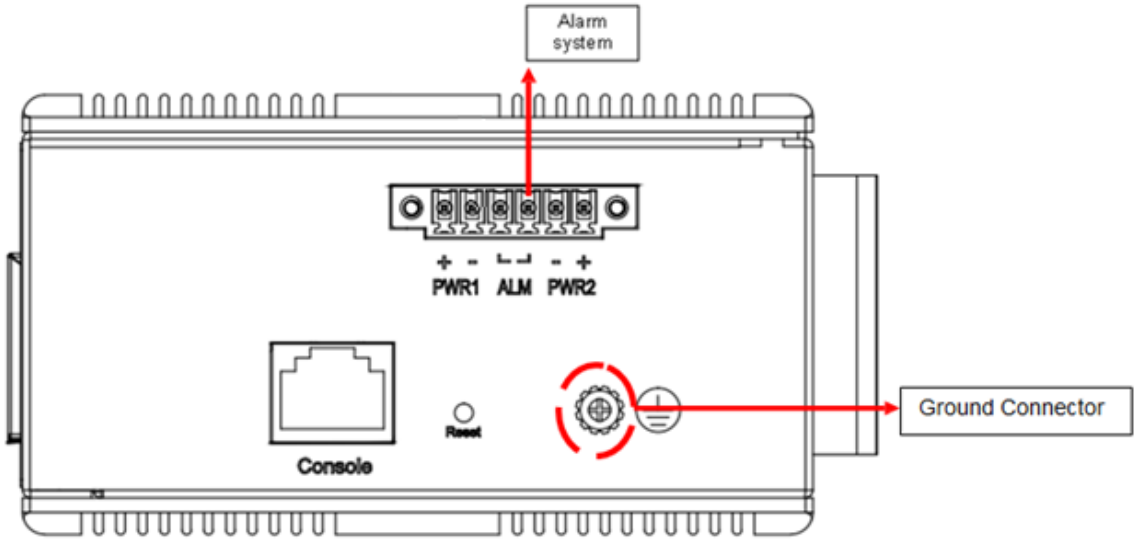
For more information see the TN manual specific to your SFP on the TN SFP webpage.

Fiber optics cable with LC duplex connector

Connect the optical fiber to the SFP socket

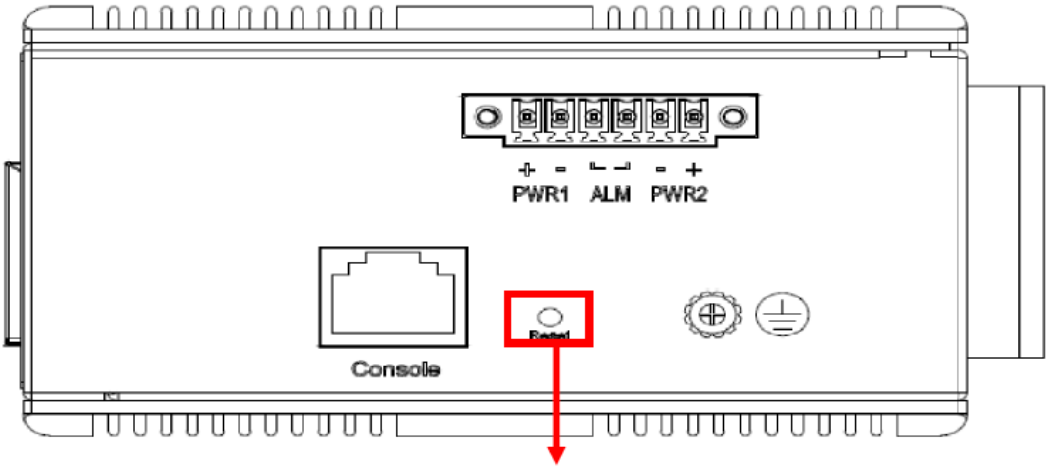
Alarm Relay and Ground Connecting

The alarm relay output contacts are in the middle of the DC terminal block connector as shown below. The alarm relay output is “Normally Open”, and is closed when an alarm occurs. The relay output supports a maximum current of 1A at 24 volts.



Reset Button

The system **Reset** button is provided to reboot the system without the need to remove power. Under normal circumstances, you will not have to use it. However, on rare occasions, the switch may not respond, and you may need to push the **Reset** button.

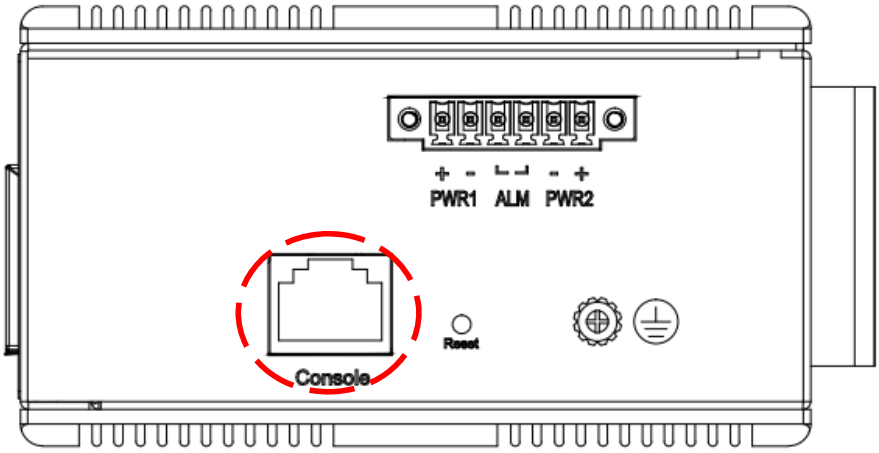


Reset Button

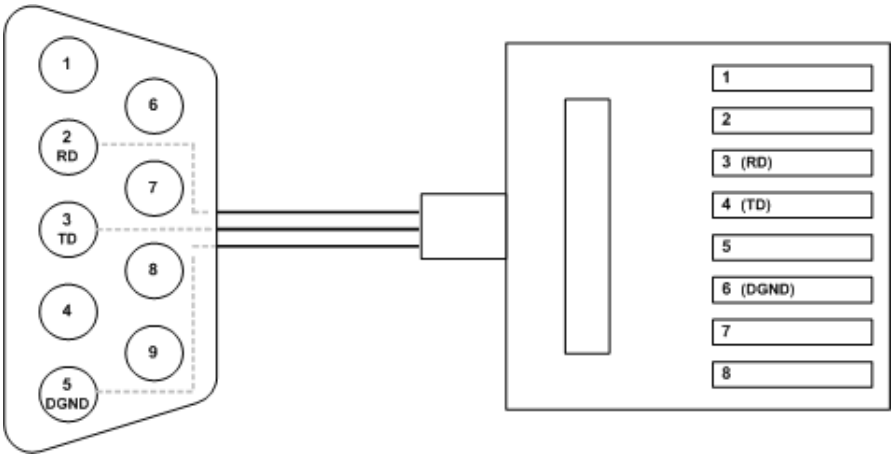
Console Connection

The Console port is for local management by using a terminal emulator or a computer with terminal emulation software.

- DB9 connector connect to computer COM port
- Baud rate: 115200bps
- 8 Data bits, 1 Stop bit
- Priority: None
- Flow control: None



To connect the host PC to the console port, a RJ45 (male) connector-to-RS232 DB9 (female) connector cable is required. The RJ45 connector of the cable is connected to the Console port of the SISGM1040-384D-LRT. The DB9 connector of the cable is connected to the PC COM port. The console cable pin assignments are shown below:



Host PC <------- DB9 Connector ---------- Switch RJ45 Console Port

Connecting Power

The switch can be powered from two power supplies (input range 12V ~ 58V). Insert the positive and negative wires into **V+** and **V-** contacts on the terminal block and tighten the wire-clamp screws to prevent the wires from being loosened.

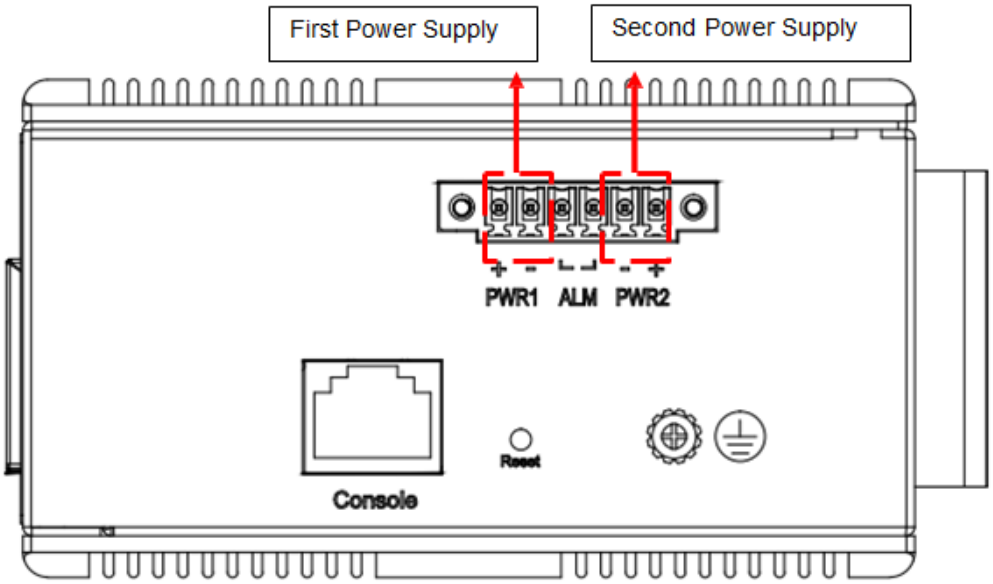
Note: See the “Power Supply Installation”, “Power Supply Warnings & Cautions”, and “Power Supply Mounting Instructions” later in this manual for detailed information.

Note: Make all cable connections before connecting Power.

Power Connector (6-Pin Terminal Block)

Input:	DC 12-58V
PWR1 +/-	Power Input 1 **+** and **-**
PWR2 +/-	Power Input 2 **+** and **-**
ALM	Alarm Relay Output

Note: The DC power should be connected to a well-fused power supply.



Note: See the “Power Supply Installation”, “Power Supply Warnings & Cautions”, and “Power Supply Mounting Instructions” later in this manual for detailed information.

Connect and Log In to the SISGM1040-184D-LRT

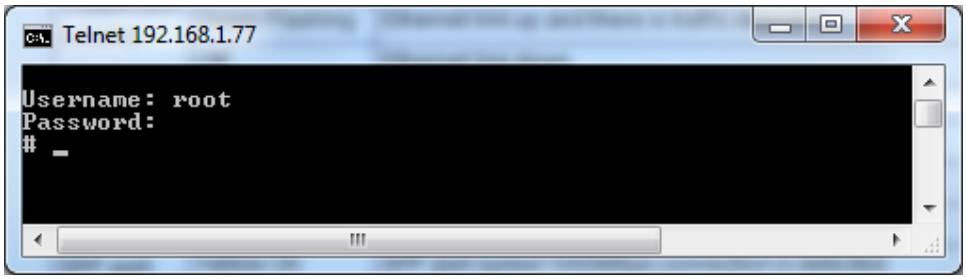
Access to the Switch is protected by a logon security system. You can log on to the switch with the user name and password. After three failed logon attempts, the system refuses further attempts. After you log on, the system monitors the interface for periods of inactivity. If the interface is inactive for too long, you are automatically logged off.

The CLI initial user name and password is **root**. You should change the password as soon as possible, because the initial password is known to anyone who reads this manual. You can also change the user name or add additional user names. Use the "`account add`" command to enter a new user identification, password, and authorization level.

Console	Baud rate: 115200bps, Data bit: 8, Parity: None, Stop bit: 1 Flow control: none
Telnet	Port 23
SSH	Port 22 (In Windows, you can run terminal emulator such as PuTTY)

CLI Initialization and Configuration (Optional)

1. Connecting to SISGM1040-184D-LRT Ethernet port(RJ45 Ethernet port)
2. In Telnet, enter the command ***telnet 192.168.1.77***.
3. Login with default account and password (Username: **root** / Password: **root**).



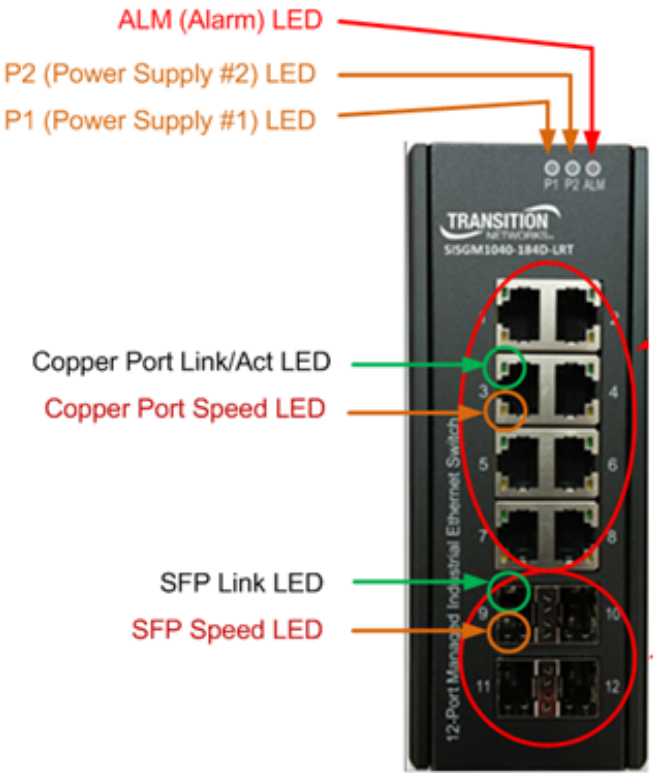
4. Change the IP with the CLI commands listed below:

```
# enable
# configure terminal
(config)# interface vlan 1
(config-if-vlan)# ip address 172.16.100.123 255.255.255.0
(config-if-vlan)# exit
#
```

LED Status Indicators

The switch LEDs are described and shown below.

LED Name	Color/State	Condition
P1/P2	Green On	P1/P2 power line has power.
	Off	P1/P2 power line disconnected or does not have supply power.
Alarm	Red On	Ethernet link fail alarm or power failure alarm occurred.
	Off	No Ethernet link fail and no power failure alarm.
Copper port Link/Act	Green On	Ethernet link up but no traffic is detected.
	Green Flashing	Ethernet link up and there is traffic detected.
	Off	Ethernet link down.
Copper port Speed	Yellow On	A 1000Mbps connection is detected.
	Off	No link, a 10Mbps or 100 Mbps connection is detected.
SFP port Link/Act	Green On	Ethernet link up.
	Off	Ethernet link down.
SFP port Speed	Yellow On	SFP port speed 1000Mbps connection is detected.
	Off	No link or a SFP port speed 100Mbps connection is detected.



Power Supply Specifications

Various power supply models are available from Transition Networks. **Warning**: You must use an isolated power supply in order for Transition Networks to honor the warranty. The power supplies that Transition Networks makes available are:

Industrial Power Supply 25104 (SDR-240-48)
Industrial Power Supply 25079 (SDR-120-24)

Industrial Power Supply 25104 (SDR-240-48)

INPUT: 100-240VAC 2.6A 50/60 Hz
OUTPUT: 48V - 5A
"Use copper wire only"
"Maximum surrounding air temperature: 60°C"

Terminal Torque: 7 Lb-in (DC connections at top of PS).
Terminal Torque: 4.4 Lb-in (AC connections at bottom of PS).

+V ADJ: access to small Phillips screw; turn clockwise to increase voltage. Adjustable, 48-55V.

DC OK LED: lights to indicate a DC OK condition.

Industrial Power Supply 25079 (SDR-120-24)

25079 PS, 24VDC@5A,UNIV.AC,Indus,DIN Rail, DR-120-24, RoHS Compliant.

INPUT: 100-1200VAC 3.3A / 200-240VAC 2.0A 50/60 Hz
OUTPUT: 24V - 5A
DC OK LED: lights to indicate a DC OK condition.
Dimensions : 1.57 W x 4.92 H x 4.46 D In.
Input Voltage : 100-264 VAC
Mounting Type : DIN Rail
Output : 24VDC@5A
UL 508 (industrial control equipment) approved
EN61000-6-2(EN50082-2) industrial immunity level
MTBF: 289.9Khrs min. MIL-HDBK-217F (25)
Protections: Short circuit / Overload / Over voltage / Over temperature

HARMONIC CURRENT: Compliance to EN61000-3-2,-3

EMI CONDUCTION & RADIATION: Compliance to EN55022 (CISPR22) Class B

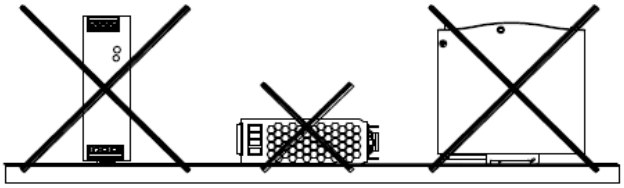
EMS IMMUNITY: Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, SEMI F47, GL approved

Power Supply Installation

Each power supply is a DIN rail power supply with a 150% peak load capability (3 seconds) and high efficiency of up to 94%. They can be mounted on a TS35 Standard DIN rail.

1）Always allow good ventilation clearances, 5mm left and right, 40mm above and 20mm below, around the unit in use to prevent it from overheating. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source.

2）The appropriate mounting orientation for the unit is vertical, the input terminals at the bottom and output on the top. Mounting orientations other than that, such as upside down, horizontal, or table-top mounting, is not allowed.



3）Use copper wire only, and recommended wires as shown below.

AWG	18	16	14	12	10
Rated Current of Equipment (Amp)	6A	6-10A	13-16A	16-25A	25-32A
Cross-section of Lead(mm^2)	0.75	1.00	1.5	2.5	4
Note: 1. Current each wire carries should be de-rated to 80% of the current suggested above when using 5 or more wires connected to the unit. 2. The maximum allowable wire cross-sectional area for the terminal of the SDR-75 is 12AWG/2.5 mm^2.					

Make sure that all strands of each stranded wire enter the terminal connection and the screw terminals are securely fixed to prevent poor contact. If the power supply possesses multi-output terminals, please make sure each contact is connected to wires to prevent too much current stress on a single contact.

4）Use wires that can withstand temperatures of at least 80°C, such as UL1007.

5）Recommended wire strapping length is 5mm (0.197”).

6）Recommended screwdriver is 4mm, slotted type.

7）The recommended torque setting for terminals is:

SDR-120-24 I/P = 6.3 kgf-cm (5.5 Lb-in) and O/P = 8 kgf-cm (7 Lb-in)

SDR-240-48 I/P = 5 kgf-cm (4.4 Lb-in) and O/P = 8 kgf-cm (7 Lb-in)

8）Suggested fuse and maximum number of the SDR PSUs that can be connected to a circuit breaker at 230V are:

SDR-120-24 Fuse = T4A/L250V, C16 = 7, D16 = 14.

SDR-240-48 Fuse = T5A/L250V, C16 = 4, D16 = 8.

Power Supply Warnings & Cautions !!

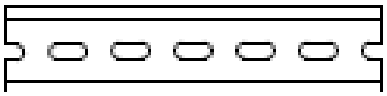
1. Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!
2. Risk of electric arcs and electric shock (danger to life). Connecting both the primary and the secondary sides together is not allowed.
3. Risk of burn hazard. Do not touch the unit in operation and shortly after disconnection!
4. Risk of fire and short circuit. The openings should be protected from foreign objects or dripping liquids.
5. Only install the unit in a pollution degree 2 environment (where there is only non-conductive pollution that might temporarily become conductive due to occasional condensation. Generally refer to dry, well-ventilated locations, such as control cabinets).
6. Please do not install the unit in places with high moisture or near the water.
7. The maximum operating temperature is 60˚C. Please do not install the unit in places with high ambient temperature or near fire source.
8. The FG (⏚) must be connected to PE (Protective Earth).
9. Output current and output wattage must not exceed the rated value on its specification.
10. Disconnect system from supply voltage: Before commencing any installation, maintenance or modification work: Disconnect your system from supply voltage. Make sure that inadvertent connection in circuit will be impossible!
11. For continued protection against risk of fire, replace only with same type and rating of fuse.
    Pour ne pas compromettre la protection contre les risqué d'incendie, remplacer par un fusible de même type et de memes caractéristiques nominales.

Power Supply Mounting Instructions

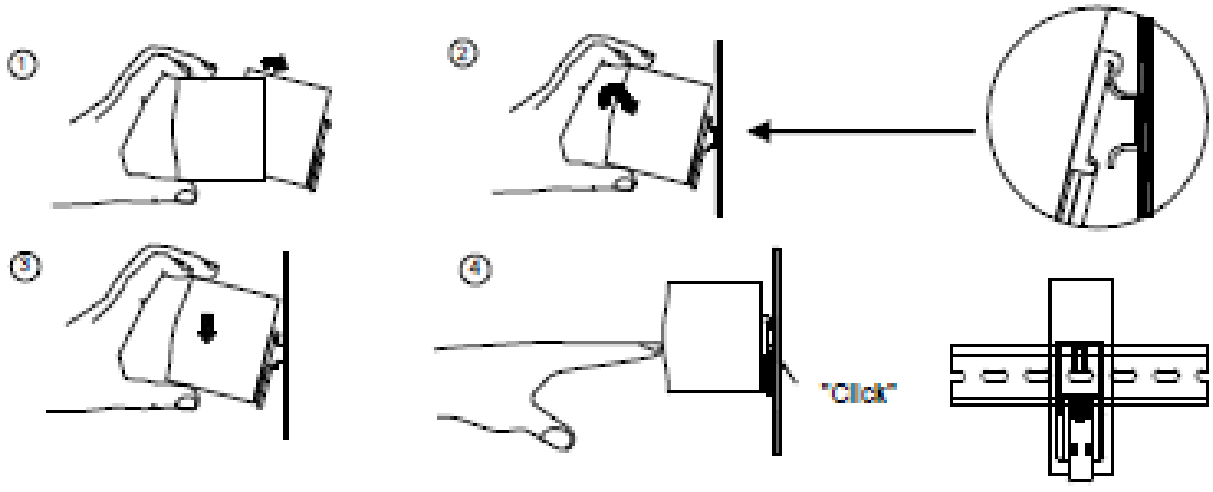
Mount as shown in figure only, with input terminals down, or else sufficient cooling will not be possible.

Admissible DIN Rail：TS35/7.5 or TS35/15

For DIN Rail fastening:



1. Tilt the unit slightly rearwards.
2. Fit the unit over top hat rail.
3. Slide it downward until it hits the stop.
4. Press against the bottom for locking.
5. Shake the unit slightly to check the locking action.



Related Manuals

These manuals give additional information on how to operate the switch:

- SISGM1040-184D-LRT Quick Start Guide, 33708
- SISGM1040-184D-LRT Web User Guide, 33710
- SISGM1040-184D-LRT CLI Reference, 33711

For Transition Networks Drivers, Firmware, etc. go to the Product Support webpage (logon required). For Transition Networks Brochures, Data Sheets, Manuals, etc. go to the Support Library (no logon required). Note that this manual provides links to third part web sites for which Transition Networks is not responsible.

Troubleshooting

If the switch fails, isolate and correct the fault by determining the answers to the following questions and then taking the indicated action. First isolate the problem to the SISTM1040-173D-LRT; by troubleshoot any other network gear (e.g., other switches, remote devices like cameras, midspan injectors if used, etc.) to isolate the problem to the SISGM1040-184D-LRT.

1. If one of the Green Power LEDs (PWR1, PWR2) is not lit check the following:
   - Is the power source live and to spec?
   - Is the power adapter properly installed? Verify that you are using the right power cord/adapter. Using a power adapter with DC voltage output higher than the rated voltage of the switch will damage the switch. Check connections between the switch, the power cord and the wall outlet.
   - Are the power supply modules completely inserted and the thumb screws tight?
   - Are the power cables properly installed? Check for loose power connections, power losses or surges at power outlet. See the related section of this manual for details.
2. Check the port LEDs. If the Green port Link/Act LED or the Amber Link LED is not lit, then verify that the copper and fiber cable requirements are met. See Specifications on page 5.
3. If you are configuring a feature via the web GUI, try using the CLI, and vice versa.
4. Run the device Diagnostics; see the Web User Guide or the CLI Reference manual.
5. Try resetting to factory defaults and/or a system reset. See the Reset Button on page 10. See the *Web User Guide* or the *CLI Reference* manual.
6. Make sure that the function you are trying to use is supported (e.g., the SISGM1040-184D-LRT model does not support PoE). See Features on page 4.
7. Verify the install procedures were performed correctly as described in previous sections of this manual.
8. Check that the proper cable type is used and its length does not exceed specified limits. See Ethernet Interface Connecting (RJ45 Ethernet) on page 8 and Ethernet Interface Connecting (Fiber, SFP) on page 9.
9. Check for improper network topologies. Make sure that your network topology contains no data path loops.
10. Diagnose via the LEDs: The Ethernet switch can be monitored via LEDs on the front panel to help identify problems. See LED Status Indicators on page 14.
11. If the LED indicators are normal with network cables connected properly but packet delivery still fails, check the status of Ethernet device configurations or status on the network. See the *Web User Guide* or the *CLI Reference* manual.
12. Check the port configuration. Make sure ports have not been put into a “blocking” state by Spanning Tree, GVRP, or LACP. The normal operation of the Spanning Tree, GVRP, and LACP features may put the port in a blocking state. Verify that the port has not been configured as disabled via software.
13. Check the device firmware version. Keep your products up to date by downloading the latest firmware. You must log in or create an account to download firmware. For further assistance contact us at +1.952.358.3601, 1.800.260.1312, or at techsupport@transition.com.
14. If you forgot your password or unable to login, physically connect ports 1 and 2 with an Ethernet cable and then reboot the system. This will bring system back to factory default settings.
15. If you still cannot resolve the problem, record the model and system information and contact TN Technical Support. Refer to the sections below.

Record Device and System Information

If possible, perform these basic procedure steps: **1.** Enable Port Mirroring and store the packet with Wireshark. **2.** Check the Port Counters. **3.** Connect a physical console port and save the dump messages. **4.** Provide the running configuration, topology, and firmware version.

After performing the troubleshooting procedures above, and before calling or emailing Tech Support, record as much information as possible in order to help the Tech Support Specialist.

Record Model name: _____

SN: _____

Software Version: _____ IP Status: _____

LED Status: _____

_____

_____

Syslog: _____

Current Alarm data and alarm history: _____

Your Transition Networks service contract number: _____

Describe the failure: _____

_____

_____

_____

Describe any action(s) already taken to resolve the problem (e.g., changing mode, resetting, etc.):

_____

_____

_____

The model # and serial # of all other Transition Networks products in the network: _____

_____

_____

Describe your network environment (layout, cable type, cable distance, etc.): _____

_____

_____

_____

Any previous Return Material Authorization (RMA) numbers: _____

_____

List TN or third party equipment in the network (e.g., PCs, servers, switches, routers, or hubs, remote devices (camera, etc.), SFPs, etc.): _____ _____

_____

_____

_____

Contact Us

Technical Support: Technical support is available 24-hours a day

US and Canada: 1-800-260-1312
International: 00-1-952-941-7600

Main Office

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Compliance Information

FCC Part 15 Subpart B for Electromagnetic Interference

47 CFR FCC Part 15 Subpart B
ANSI C63.4:2009
ICES-003 Issue 5
CAN/CSA-CISPR 22-10

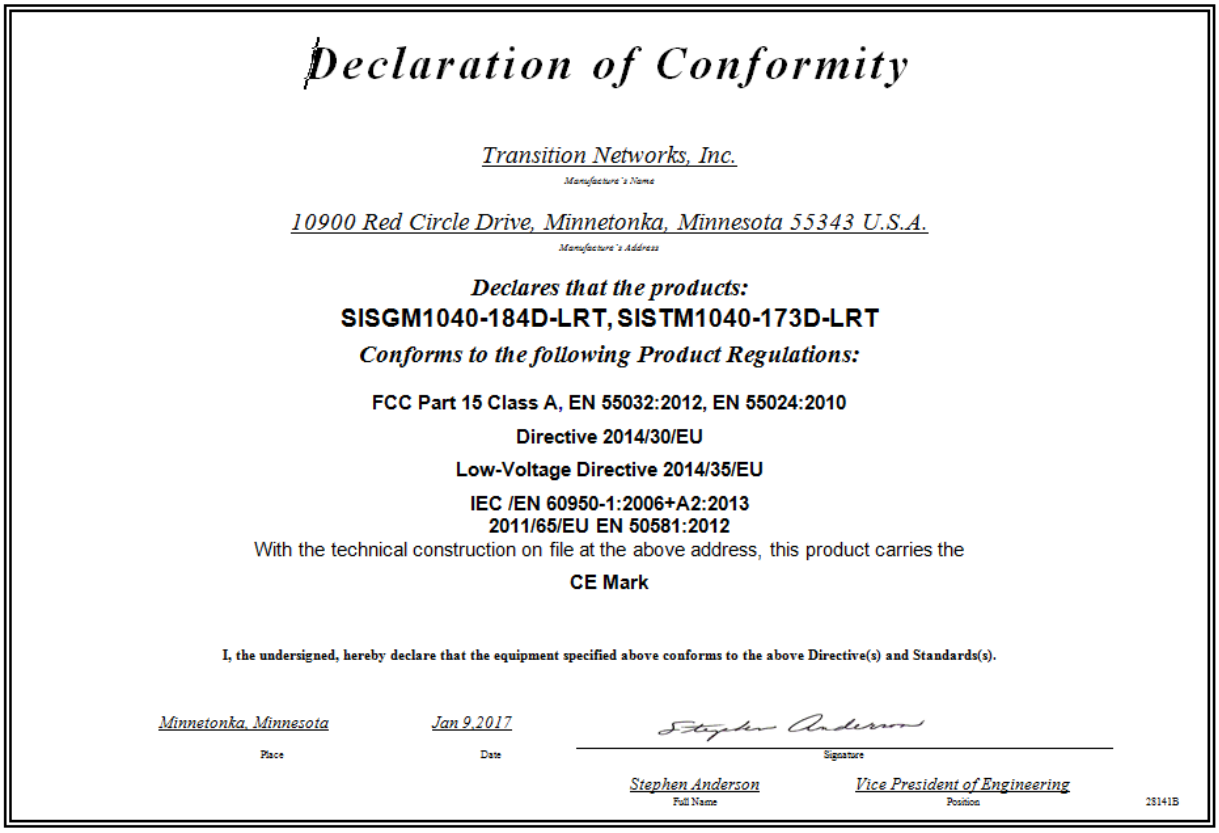
Harmonized Standards:

EN 61000-6-2: 2005
EN 61000-6-2: 2007+ A1:2011

Emission:
CISPR 16-1-2: 2003+A1; 2004+A2; 2006 (4.3)
CISPR 16-2-1: 2008 (7.4.1)
CISPR 16-2-3: 2006
CISPR 22: 2008 (9.6)

Immunity:
IEC 61000-4-2: 2008
IEC 61000-4-3: 2006+A1: 2007+A2: 2010
IEC 61000-4-4: 2012
IEC 61000-4-5: 2005
IEC 61000-4-6: 2008
IEC 61000-4-8: 2009
IEC 61000-4-11: 2004
IEC 61000-4-9: 1993+A1: 2000

Declaration of Conformity



Declaration of Conformity

Transition Networks, Inc.
Manufacture's Name

10900 Red Circle Drive, Minnetonka, Minnesota 55343 U.S.A.
Manufacture's Address

Declares that the products:
SISGM1040-184D-LRT, SISTM1040-173D-LRT
Conforms to the following Product Regulations:

FCC Part 15 Class A, EN 55032:2012, EN 55024:2010
Directive 2014/30/EU
Low-Voltage Directive 2014/35/EU
IEC /EN 60950-1:2006+A2:2013
2011/65/EU EN 50581:2012
With the technical construction on file at the above address, this product carries the
CE Mark

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standards(s).

Minnetonka, Minnesota — Place
Jan 9,2017 — Date
Signature
Stephen Anderson — Full Name
Vice President of Engineering — Position
28141B

Limited Lifetime Warranty

To return a defective product for warranty coverage, contact Transition Networks' technical support department for a return authorization number. Transition Network's technical support department can be reached 24-hours a day by any of the following means:

US and Canada: 1-800-260-1312
International: 00-1-952-941-7600
Main Office
tel: +1.952.941.7600 | toll free: 1.800.526.9267 | fax: 952.941.2322
sales@transition.com | techsupport@transition.com | customerservice@transition.com

Address
Transition Networks
10900 Red Circle Drive
Minnetonka, MN 55343, U.S.A.
Web: https://www.transition.com

Limited Lifetime Warranty
Effective for Products Shipped May 1, 1999 and After. Every Transition Networks labeled product purchased after May 1, 1999, and not covered by a fixed-duration warranty will be free from defects in material and workmanship for its lifetime. This warranty covers the original user only and is not transferable.

This warranty does not cover damage from accident, acts of God, neglect, contamination, misuse or abnormal conditions of operation or handling, including over-voltage failures caused by use outside of the product's specified rating, or normal wear and tear of mechanical components.

Transition Networks will, at its option:
•Repair the defective product to functional specification at no charge
•Replace the product with an equivalent functional product
•Refund a portion of purchase price based on a depreciated value

To return a defective product for warranty coverage, contact Transition Networks' Customer Support for a return authorization number.

Send the defective product postage and insurance prepaid to the following address:
Transition Networks, Inc.
10900 Red Circle Drive
Minnetonka, MN 55343
USA

Attn: RETURNS DEPT: CRA/RMA # _____

Failure to properly protect the product during shipping may void this warranty. The return authorization number must be written on the outside of the carton to ensure its acceptance. We cannot accept delivery of any equipment that is sent to us without a CRA or RMA number.

CRA's are valid for 60 days from the date of issuance. An invoice will be generated for payment on any unit(s) not returned within 60 days.

Upon completion of a demo/ evaluation test period, units must be returned or purchased within 30 days. An invoice will be generated for payment on any unit(s) not returned within 30 days after the demo/ evaluation period has expired.

The customer must pay for the non-compliant product(s) return transportation costs to Transition Networks for evaluation of said product(s) for repair or replacement. Transition Networks will pay for the shipping of the repaired or replaced in-warranty product(s) back to the customer (any and all customs charges, tariffs, or/and taxes are the customer's responsibility).

Before making any non-warranty repair, Transition Networks requires a $200.00 charge plus actual shipping costs to and from the customer. If the repair is greater than $200.00, an estimate is issued to the customer for authorization of repair. If no authorization is obtained, or the product is deemed not repairable, Transition Networks will retain the $200.00 service charge and return the product to the customer not repaired. Non-warranted products that are repaired by Transition Networks for a fee will carry a 180-day limited warranty. All warranty claims are subject to the restrictions and conventions set forth by this document.

Transition Networks reserves the right to charge a $50 fee for all testing and shipping incurred, if after testing, a return is classified as "No Problem Found."

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. TRANSITION NETWORKS IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE OR THEORY. AUTHORIZED RESELLERS ARE NOT AUTHORIZED TO EXTEND ANY DIFFERENT WARRANTY ON TRANSITION NETWORKS'S BEHALF.

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SISGM1040-184D-LRT Install Guide 33709 Rev. B