

ShoreGear 220 series Voice Switch

Models: SG-220T1, SG-220E1

Requirements, Standards, and Trademark Information

Environmental Requirements

Ventilation

Adequate ventilation must be provided to allow air circulation through the ShoreGear 220. Leave at least two inches of open space near all vent holes.

Gas and Airborne Particles

To avoid corrosion or oxidation of electrical contacts, the environment should be free from airborne particles and corrosive gas.

Electrical Noise

The environment should be free from excessive electrical noise, which could disturb the operation of digital and analog circuits. The system should be located at least 10 feet (3 meters) away from welders, dimmers, or other high-current machines.

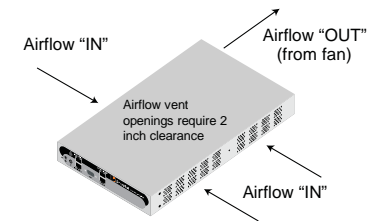
Acoustic Noise

This equipment complies with ISO EN 7779 requiring that the acoustic noise level be less than 70 dB(A).

Power supply cord: Use the provided 3-conductor power cord to connect power to the ShoreGear 220. The power supply cord must be plugged into a grounded outlet.

In addition to other traditional types of power distribution systems used worldwide, such as TN, the product has been designed for connection to an IT power distribution system, such as that used in Norway.

Shelf Mount Airflow

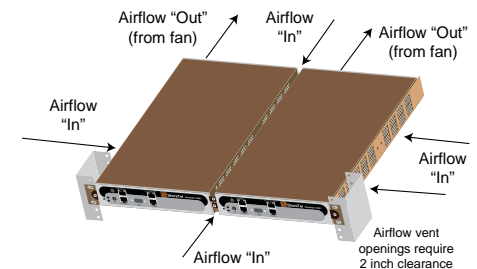


Tray-Mount Ears

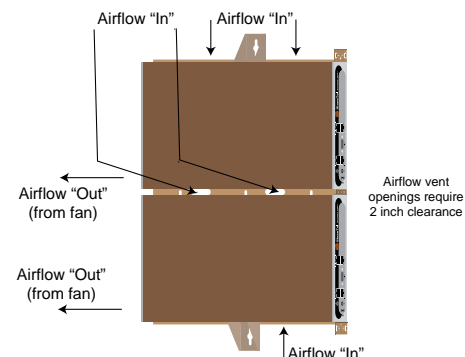
The ShoreGear 220 is supplied with two brackets for mounting the unit into the ShoreGear Dual Tray.

CAUTION The ShoreGear 220 must use the ShoreGear Dual Tray for mounting the unit into a 19-inch rack or on a wall. Do not use any other mounting method.

Rack Mount Airflow



Wall Mount Airflow



Ambient temperature in the rack must be between 0 and 50° C. Do not block the openings in the housing that are provided for ventilation.



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PN 850-1103-01

Umweltanforderungen

Belüftung

Das SG220 muss ausreichend belüftet werden. Lassen Sie neben Belüftungsöffnungen daher immer mindestens 5 Zentimeter Freiraum.

Schwebende und Gaspartikel

Die Umgebung muss frei von schwebenden Partikeln und korrosiven Gasen sein, um die Korrosion oder Oxidierung der elektrischen Kontakte zu vermeiden.

Elektrische Störfelder

Die Umgebung muss frei von exzessiven elektrischen Störfeldern sein, die den Betrieb digitaler und analoger Schaltkreise beeinträchtigen könnten. Das System muss sich mindestens 3 Meter entfernt von Schweißern, Dimmern oder anderen Hochspannungsgeräten befinden.

Geräuschpegel

Dieses Gerät entspricht der Norm ISO EN 7779, die besagt, dass sein Geräuschpegel nicht über 70 dB(A) liegen darf.

Netzkabel: Verwenden Sie das mitgelieferte 3-adrige Netzkabel für die Stromversorgung zum ShoreGear 220. Das Netzkabel muss an einen geerdeten Schalter angeschlossen werden.

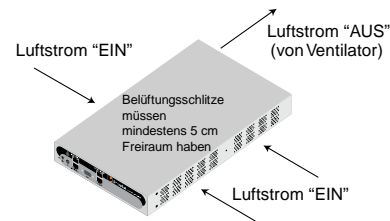
Zusätzlich zu herkömmlichen und weltweit verwendeten Stromversorgungssystemen wie TN ist das Gerät für den Anschluss an IT-Stromversorgungssysteme konzipiert, wie z. B. das in Norwegen verwendete System.

Montageösen

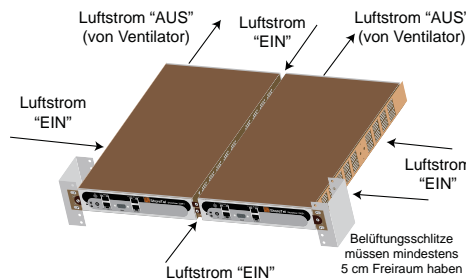
Das ShoreGear 220 wird mit zwei Trägern zur Montage des Geräts in einem ShoreGear Dual Tray geliefert.

VORSICHT Das ShoreGear 220 muss den ShoreGear Dual Tray für die Montage des Geräts in einem 19-Zoll-Rack oder an einer Wand verwenden. Verwenden Sie keine andere Montagemethode.

Luftstrom bei Regalmontage

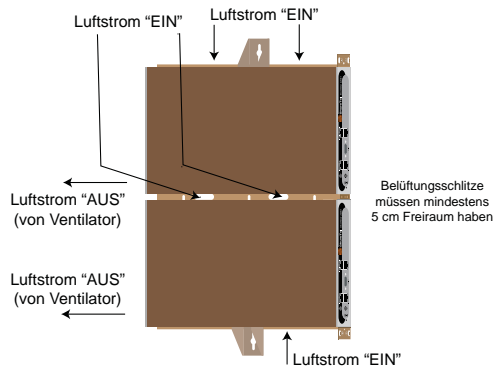


Luftstrom bei Rackmontage



Umgebungstemperaturen im Rack müssen zwischen 0° und 50° Celsius liegen. Blockieren Sie nie die Belüftungsschlitze an der Rückseite und an mindestens einer Seite des Gehäuses.

Luftstrom bei Wandmontage



DECLARATION OF CONFORMITY

Manufacturer's Name: **ShoreTel, Inc.**
Manufacturer's Address: **960 Stewart Dr.
Sunnyvale, California 94085 U.S.A.**

DECLARES THAT THE PRODUCTS

Product Name: **ShoreGear 220E1, ShoreGear 220T1 Voice Switches**
Models: **SG-220E1, SG-220T1**

CONFORM TO THE FOLLOWING REGULATIONS AND STANDARDS

Low Voltage Directive 73 / 23 / EEC
EMC Directive 89 / 336 / EEC with Amendment 93 / 68 / EEC
RoHS Directive 2002 / 95 / EEC, Council 27 Jan 2003
WEEE Directive 2002 / 96 / EEC, Council 27 Jan 2003

Supplementary Information:

Safety : **UL 60950-1:2001, CSA C22.2 60950-1, EN60950-1:2001**
GS Mark from TUV Rheinland, CB Scheme

EMC: **FCC Part 15, ICES-003, EN 55022, IEC CISPR 22, Class B;**
EN 55024

Year Mark First Applied: **2007**

The Technical Construction File is maintained at ShoreTel, Inc. USA headquarters and at:

ShoreTel UK Ltd Telephone: 01753 757200
Abbey House Fax: 01753 757210
18-24 Stoke Road website: www.shoretel.com
Slough
Berkshire SL2 5AG UK

The authorized representative located within the EC is: Geoff Gudgion, ShoreTel UK Ltd

ShoreTel, Inc., located at 960 Stewart Drive, Sunnyvale, CA, 94085, in the United States of America hereby certifies that the SG-220T1 bearing labeling identification number US:4ABDDNANS220T1, comply with the Federal Communications Commission's ("FCC") Rules and Regulations 47 CFR Part 68, and the Administrative Council on Terminal Attachments ("ACTA")-adopted technical criteria ANSI/TIA-968-A-2002, including Addendum ANSA/TIA-968-A-1 (2003).

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards.

Place: Sunnyvale, CA Signature: 

Date: February 14, 2007 Full Name: David P. Dix

Position: Director, Hardware Engineering

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Trademarks

ShoreTel, ShoreWare, and ShoreGear are trademarks of ShoreTel, Inc. in the United States and/or other countries. All other copyrights and trademarks herein are the property of their respective owners.

FCC Rules, Part 15 Statement – SG-220T1 USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Rules, Part 68 Information – SG-220T1 USA

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the back of this equipment is a label that contains a product identifier in the format US: AAAEQ##TXXXX. If requested, this information must be provided to your telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Rules, Part 68 and requirements adopted by ACTA.

Mfgs Port Identifier	Facilities Interface Code	Service Order Code	Network Jacks
T1 CSU Interface	04DU9-BN 04DU9-DN 04DU9-1KN 04DU9-1ZN 04DU9-1SN	6.0N	RJ-48C

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this unit, for repair or warranty information, please contact ShoreTel Technical Assistance Center at the address and phone listed on page 4. If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved. DO NOT DISASSEMBLE THIS EQUIPMENT. It does not contain any user serviceable components.

Equal Access – USA

This equipment is capable of providing users access to interstate providers of operator services through the use of access codes. Modifications of this equipment by call aggregators to block access to dialing codes are a violation of the Telephone Operator Consumers Act of 1990.

Direct Inward Dialing – USA

ALLOWING THIS EQUIPMENT TO BE OPERATED IN SUCH A MANNER AS NOT TO PROVIDE FOR PROPER ANSWER SUPERVISION IS A VIOLATION OF PART 68 OF THE FCC RULES.

Proper answer supervision is provided when:

1. This equipment returns answer supervision to the PSTN when DID calls are:
 - Answered by the called station
 - Answered by the attendant
 - Routed to a recorded announcement that can be administered by the CPE user
 - Routed to a dial prompt
2. This equipment returns answer supervision on all DID calls forwarded to the PSTN. Permissible exceptions are:
 - A call is unanswered
 - A busy tone is received
 - A reorder tone is received

Industry Canada Statements

SG-220T1

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation IC before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment. The Industry Canada registration number is located on the back of the unit.

Warning

Any modifications to the unit, unless expressly approved by ShoreTel, Inc. could void the user's authority to operate the equipment.

Safety

The following information is included in this publication for the use and safety of installation and maintenance personnel.

NOTE This equipment uses a three-conductor power cord with safety grounding conductor. Ensure that this is connected to an AC outlet with provision for grounding. Consult a licensed electrician if necessary.

Important Safety Instructions

- Read all of the instructions before attempting to operate the equipment and before connecting the power supply.
- Always follow basic safety precautions to reduce the risk of fire, electrical shock, and injury to persons.
- **CAUTION** Users should not attempt to make such connection themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture, or install this product near water. Never spill liquid of any kind on this product.
- Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short out parts, which could result in the risk of fire or electrical shock.
- Do not open the enclosure, as there are high voltage components inside. Refer servicing to qualified service personnel.
- Do not attach the power supply cord to building surfaces. Do not allow anything to rest on the power cord or allow the cord to be abused by persons walking on it.
- To protect this equipment from overheating, do not block the openings in the housing that are provided for ventilation.

Safety with Electricity...Danger!

Do not take chances with your life. Follow these guidelines carefully:

- Observe all safety regulations and read the warnings, cautions, and notes posted on the equipment.
- Never assume that the power is turned off. Always check to ensure that a circuit does not have power.
- Disconnect all power before installing changes in systems or wiring.
- Use caution when installing or modifying telephone lines. Never install telephone wiring during an electrical storm.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

Warnung

Jegliche Änderungen am Gerät, die nicht ausdrücklich von ShoreTel, Inc. genehmigt wurden, können das Recht des Benutzers zum Gebrauch des Geräts null und nichtig machen.

Sicherheit

Die folgenden Sicherheitsinformationen gelten für Installations- und Wartungspersonal.

HINWEIS Das Gerät verwendet ein dreidrahtiges Stromkabel mit einem Erdungsleiter. Stellen Sie sicher, dass dieses an eine geerdete Wechselstromsteckdose angeschlossen wird. Prüfen Sie, dass der permanente Erdungsschutz wie in der Installationsanleitung beschrieben angeschlossen ist. Ziehen Sie ggf. einen qualifizierten Elektriker zu Rate.

Wichtige Sicherheitsanweisungen

- Lesen Sie alle Anweisungen, bevor Sie das Gerät in Betrieb nehmen und bevor Sie die Stromversorgung anschließen.
- Treffen Sie immer grundlegende Sicherheitsvorkehrungen, um die Gefahr von Feuer, Stromschlag und Verletzungen zu verringern.
- **VORSICHT** Benutzer sollten solche Anschlüsse nicht selbst einrichten, sondern die entsprechende Aufsichtsbehörde oder einen qualifizierten Elektriker kontaktieren.
- Setzen Sie das Gerät nie Regen oder Feuchtigkeit aus und installieren Sie es nicht in der Nähe von Wasser, um die Gefahr von Feuer oder Stromschlag zu mindern. Achten Sie darauf, nie Flüssigkeiten auf das Gerät zu verschütten.
- Schieben Sie nie Objekte irgend einer Art durch Öffnungen in das Gerät hinein. Diese könnten gefährliche Spannungspunkte berühren, was zu Feuer oder Stromschlag führen könnte.
- Öffnen Sie nie das Gehäuse, da dieses Hochspannungskomponenten enthält. Überlassen Sie jegliche Wartungsarbeiten entsprechend qualifizierten Technikern.
- Befestigen Sie das Netzkabel nie an Gebäudeoberflächen. Setzen oder stellen Sie nie irgendwelche Gegenstände auf dem Netzkabel und erlauben Sie nie, dass Personen auf das Netzkabel treten.
- Blockieren Sie nie die Belüftungsschlitze im Gehäuse, um ein Überhitzen des Geräts zu verhindern.

Elektrische Sicherheit... Gefahr!

Setzen Sie nicht Ihr Leben aufs Spiel. Halten Sie sich genau an die folgenden Richtlinien:

- Befolgen Sie alle Sicherheitsvorschriften und lesen Sie die Warnungen, Vorsichtsmeldungen und Hinweise auf dem Gerät.
- Gehen Sie nie davon aus, dass das Gerät ausgeschaltet ist. Prüfen Sie immer, dass ein Schaltkreis nicht unter Strom steht.
- Trennen Sie die Stromversorgung völlig ab, bevor Sie Änderungen am System oder in der Verkabelung vornehmen.
- Gehen Sie mit Vorsicht vor, wenn Sie Telefonleitungen installieren oder bearbeiten. Installieren Sie Telefonleitungen nie während eines Gewitters.
- Berühren Sie nie blanke Telefondrähte oder Klemmen, wenn die Leitung nicht an der Netzwerkschnittstelle abgetrennt wurde.