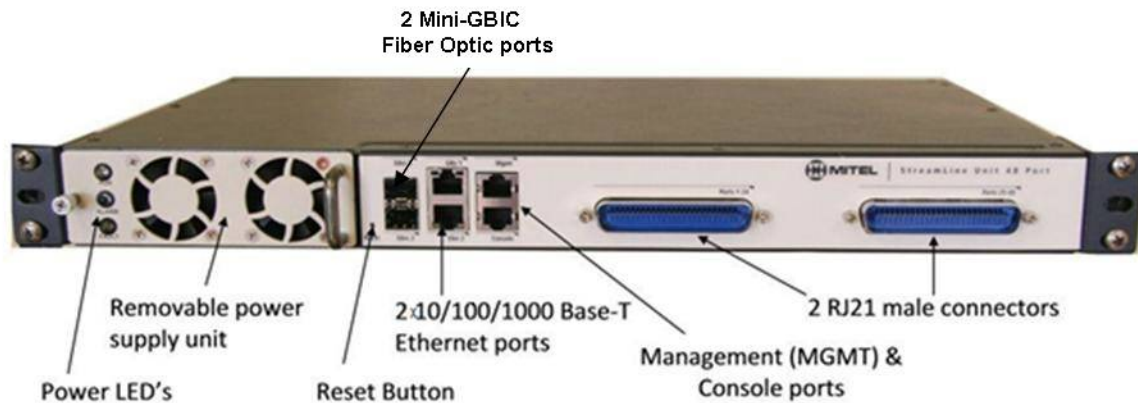


QUICK INSTALL

MITEL STREAMLINE

The Mitel® StreamLine family of data switches delivers Ethernet and Power over Ethernet on a single pair of telephony grade wire¹ with up to 4 times the reach of traditional data switches. With the StreamLine switch customers can transform their existing voice infrastructure into an IP network with PoE, ideal for IP telephony deployment. For complete details refer to the Hardware Installation Guide.

The StreamLine Switch – 48-Port



StreamLine Package Includes:

- 1 x StreamLine switch 24-port or 48-port model
- 1 x rackmount bracket kit
- 1 x console cable
- 1 x DC cable
- Quick Install Guide (this document)

Dongle Package Includes:

- 6 x StreamLine dongles

The StreamLine Dongle

Network Infrastructure Side
RJ11 Port



Ethernet Side
RJ45 Port

¹ StreamLine is supported on both CAT-3 or better, and CW1308 cabling, of up to 365 m (1200ft) & 24 gauge or better. For more technical details, please consult the [StreamLine Site Survey](#) document.

INSTALLATION CONSIDERATIONS



The ground symbol within a circle identifies the terminal to be connected to an external protective conductor. Connect this terminal to earth ground before you make any other connections to the equipment.

LOCATION AND REGIONAL SPECIFICATIONS

The StreamLine can be installed in any indoor location in all countries except in Finland, Norway and Sweden, where, in these 3 Nordic countries, it must be installed in a restricted access location.

StreamLine kan installeras på valfri plats inomhus i samtliga länder utom Finland, Norge och Sverige; i dessa nordiska länder måste den installeras på en plats med begränsad åtkomst.

StreamLine kan installeres overalt indendørs undtagen i Finland, Norge og Sverige, hvor i disse tre nordiske lande den skal installeres på et sted med begrænset adgang.

StreamLine kan installeres innendørs i alle land unntatt Finland, Norge og Sverge. I disse tre nordiske landene må den installeres på et sted med begrenset tilgang.

SPACE REQUIREMENTS

1. Select a standard 19" (48cm) equipment rack or, for a standalone installation, a flat, stable surface capable of supporting the size and weight of the StreamLine, its installable components and cabling.
2. Ensure that you have enough rack space for all equipment. Shelves and rear supporting brackets are not mandatory.

LOCATION REQUIREMENTS

Power - The StreamLine switch must be placed within 1.8 m (6ft) of an available power source. Do not use an extension cord to connect the equipment to a power outlet.

Ventilation - To ensure proper ventilation of the StreamLine, leave at least 2" (5cm) of unobstructed space on all sides of the unit. If the fans are blocked, the unit could overheat.

Downlink - The Dongles can be installed up to 365 m (1200ft), refer to footnote #1 on page 1, away from the StreamLine switch. Also reference the StreamLine Site Survey document for information on acceptable wiring conditions.

WHAT YOU WILL NEED

Installation procedures will be trouble free if you ensure that the following items are available before you begin:

- The StreamLine switch, and all cables and accessories you received in the StreamLine package.
- All Dongles required for connecting the IP endpoint devices, provided with the product package according to the quantity ordered.
- Standard CAT-5e copper LAN cables for the **GbE** uplink trunks (user - supplied).
- Serial console cable for the **CONSOLE** port, provided with the product package.
- Standard CAT-5 or CAT-6 Ethernet LAN cable for the **MGMT** port. Optional, only if out-of band management is required (user - supplied).
- Protective Ground cable (user - supplied).

Uplink Connections

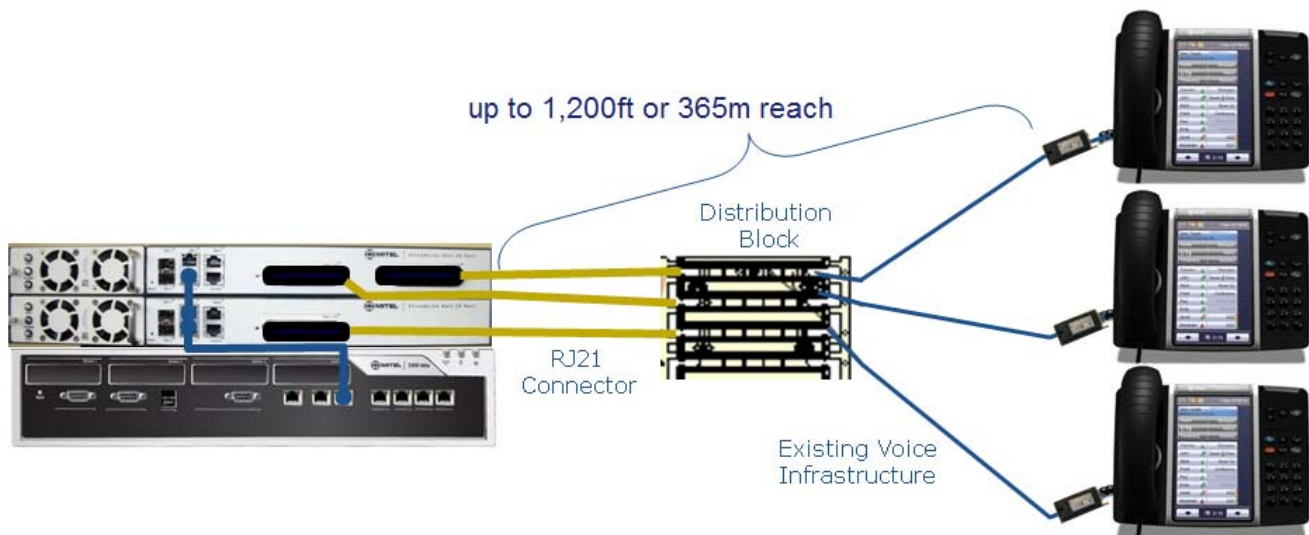
- If the uplink connections are copper, you will require either one or two standard CAT-5e copper LAN cables to connect to the the **GbE** uplink trunk ports (CAT-5e cables are user-supplied).

- If the uplink connections are fiber optic, you will require:
 - a. One or two SFP transceiver modules to connect to the **GBIC** uplink trunk ports (SFP transceivers are user-supplied).
 - b. One or two fiber optic cables that are compatible with the particular SFP transceivers that have been selected. (Fiber optic cables are user-supplied).



Caution: If you plan to use two uplink connections, it is imperative that you enable the Rapid Spanning Tree Protocol (RSTP) and you consult with the Network Administrator to ensure that the network has been designed to support RSTP.

HARDWARE TOPOLOGY AND INSTALLATION OVERVIEW



Note: Wiring harnesses and Amphenol cables are available from Mitel for connecting the StreamLine unit to the customer premises wiring. See the Mitel StreamLine Hardware Installation Guide for more information.

IMPORTANT: Before proceeding with the StreamLine installation ensure that:

- The site survey has been satisfactorily completed.
- The wiring plant has been evaluated and that it is acceptable. For details refer to the Hardware Installation Guide, *Appendix A Verifying the Wiring Plant*.



CAUTION: To avoid possible damage to either the StreamLine switch or the IP end points, **DO NOT POWER UP** the StreamLine switch until all wiring has been completed and all IP end points are connected.



CAUTION: Once the StreamLine switch has been installed, and if it is necessary to make any wiring changes (Moves, Adds or Changes); the StreamLine switch **SHOULD BE** powered down.

Wiring changes at cross-connect panels **MUST ALWAYS** be performed with the StreamLine switch powered down, **NEVER** work on a cross-connect panel with live wires.

1. Remove the StreamLine switch and all accompanying accessories.
2. Install the rackmount brackets for rack mounting. Unit fits in standard 19" (48cm) racks

3. Install the protective grounding conductor (please refer to the System Grounding section of this guide).
4. Remove all legacy analog/digital phones from the RJ11 wall jacks.
Note: It is extremely important that no legacy phones be connected when you power on the StreamLine.
5. Connect a Dongle to the Network jack on each IP phone and connect the other end of the Dongle into the RJ11 cable that is connected to wall jack.
Note: Do not locally power an IP phone while using the Dongle.
6. Connect the Telco cable (female end) to RJ21 connectors.
Note: To firmly seat the RJ21 cable make sure that you fasten it by means of the screw on the RJ21 cable connector.

If the installation requires only one uplink connection:

7. Connect a CAT-5e Ethernet cable from the port labeled GbE 1 to the IP PBX or to the LAN.
OR
8. Connect a fiber cable from the SFP transceiver installed in the port labeled GBIC 1 to the appropriate networking gear if using a fiber connection.

If the installation requires two uplink connections:

9. BEFORE CONNECTING THE UPLINK PORTS TO THE LAN: Contact the System Administrator and ensure that the network is designed to support STP or RSTP. Obtain from the System Administrator the correct operational values for STP or RSTP and configure the StreamLine switch accordingly.

Ensure that STP or RSTP is enabled on the StreamLine switch before connecting the uplink ports to the LAN.
Note: This connection also permits in-band management over Ethernet.
10. Daisy chain the StreamLine switches using DC cables; refer to Power Capabilities and Considerations section for power supply redundancy.
11. Power up the StreamLine.
Note: Ensure that all end points on the RJ21 are connected before powering up the unit.
12. For troubleshooting, please refer to the [Hardware Installation Guide](#).
13. To revert back to factory defaults, hold the reset button for at least 10 seconds.

POWER CAPABILITIES AND CONSIDERATIONS

StreamLine comes standard with a hot swappable power supply, for power/load sharing.

For a redundant power configuration, daisy-chain multiple StreamLine switches:



You can connect up to a max. of 4 units for power/load sharing.

- Mount all StreamLine switches in the same equipment rack, with no more than 1U space between any two units.

Note: You can daisy-chain the units together while they are up and running or power them up afterward.

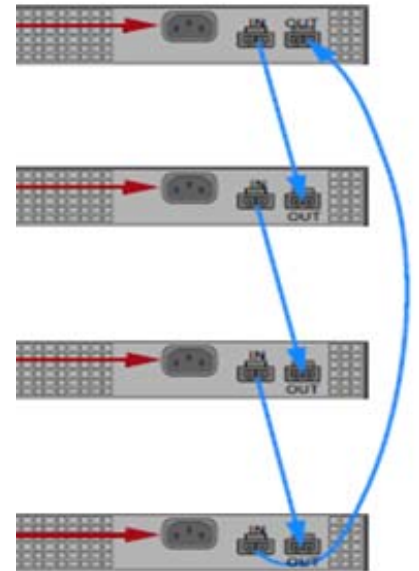
- Facing the rear of the units, install the DC cables (provided with the product package) as follows:

Note: To fit properly, the DC cable must be inserted into the DC input/output connector with its hairpin clip on top.

- For the top unit, insert the first cable into the DC input connector on the left until it clicks into place. Bring the other end of the cable down to the next unit, and connect to the DC output connector on the right.
- Continue in the same way for each pair of units, connecting the DC input (left) connector on the upper unit to the DC output (right) connector on the lower unit.

Important: For the bottom unit, the last cable from the DC input (left) connector goes up to the DC output (right) connector on the top unit. **This is required to create a fully redundant ring.**

Note: If you need to move a cable to a different DC connector on the StreamLine, press the hairpin clip at the top of the DC cable and pull the cable out.



CONFIGURING THE STREAMLINE (2 METHODS)

Connecting to the Admin GUI

Accessibility:

- In band management via the gigabit uplink ports

Default IP address:

- GBE1 & GBE2 = 192.168.100.1

Default User Name & Password:

- User Name: admin
- Password: admin

Connecting to StreamLine:

- Change the IP address of your PC or Laptop to 192.168.100.2
- Connect your Ethernet port on the PC or Laptop to the GBE1 port on the StreamLine.
- Open a web browser (Chrome/Firefox) and type in/go to <http://192.168.100.1>
- Login is "admin" password is "admin" (without quotes)
- You are now in the Admin GUI.

NOTE: Change IP addresses to avoid conflict. (Ethernet/Uplink Ports)

Steps to Change the IP Address:

- Click on Ethernet menu option on the top bar.
- Once Ethernet page is displayed select UPLINK PORTS.
- Type in new IP address in the IP Address section for in-band IP configuration.
- Type in new Net Mask in the Net Mask section (e.g. 255.255.255.0).
- Type in new IP address of the system default gateway in the Default Gateway section.
- Click Save Changes button to apply the modifications.
- Refer to admin guide for more software details.

Connecting to the Command Line Interface (CLI)

Accessibility:

- Console cable connected directly to the console port

Console Port Serial Settings:

- 115200/8/N/1

Default User Name & Password:

- User Name: admin
- Password: admin

Connect to the console port:

1. Connect the RJ45 end of the serial cable to the console port of the StreamLine. Connect the serial end of the serial cable to the serial port of your PC.
2. Configure your serial port to 115200/8/N/1
3. Login is "admin", password is "admin" (without quotes)
4. You are now connected to the CLI via the console port.

Steps to Change the IP Address:

1. Type in "pal-set-sys-ip GbE 192.168.9.1 255.255.255.0 192.168.9.255" Substitute the provided example IP information for your own.
 - a. The usage is: pal-set-sys-ip GbE <IPADDRESS> <NETMASK> <BROADCAST>
2. You will be prompted to confirm this information
3. Refer to the CLI section of the administration guide for more information.

Changing Management port default IP address

CAUTION: The Mgmt IP default address of 192.168.1.1 may conflict with other network devices/ip addresses. To avoid this from happening, you must change the IP address of the Mgmt Port to an IP which will not conflict with any other device on the network. For example, if your network belongs to "192.168.X.X" subnet, change the Mgmt Port IP to "10.10.1.1".

Steps to Change the Management Port IP Address:

1. Log into the unit via the serial console port (115200,8,N,1,None).
2. Type in "pal-set-sys-ip mgmt 10.10.1.1 255.255.255.0 10.10.1.255" Substitute the provided example IP information for your own.
 - a. The usage is: pal-set-sys-ip mgmt <IPADDRESS> <NETMASK> <BROADCAST>
3. You will be prompted to confirm this information.
4. Refer to the CLI section of the administration guide for more information.

NOTE THE FOLLOWING:

All of the above instructions provide basic installation information, necessary for the proper and safe functioning of this equipment. Persons installing or maintaining this product must read all of the safety instructions and the parts of system grounding which are applicable to the system being maintained. Only trained, qualified service personnel shall install or maintain this product.



WARNING: FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN IMPROPER EQUIPMENT OPERATION AND/OR RISK OF ELECTRICAL SHOCK.

MAKING CHANGES OR MODIFICATIONS



ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY MITEL WILL VOID ANY COMPLIANCE AND REGULATORY APPROVAL, AND WILL VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

ANY CONNECTION TO AN OUTSIDE PLANT LEAD, AN OFF-PREMISE APPLICATION, OR ANY OTHER EXPOSED PLANT APPLICATION MAY RESULT IN A FIRE OR SHOCK HAZARD, AND/OR DEFECTIVE OPERATION, AND/OR EQUIPMENT DAMAGE.

- Keep these instructions with the equipment.
- Do not attempt to install or service this equipment unless you are skilled in the installation and maintenance of electronic telecommunications equipment and have successfully completed specific training for this equipment.



SAFETY WARNINGS AND PRECAUTIONS

Access to the interior of this unit shall be made only by a qualified technician.	Der Zugang ins Innere des Gerätes ist nur einem fachlich qualifizierten Techniker gestattet.	Seul un spécialiste doit avoir accès l'appareil.	El servicio de antenimiento y reparación de esta unidad solo puede ser realizado por técnicos autorizados por el fabricante.	L'accesso all'interno di questa unità deve essere effettuato solo da tecnici qualificati.
This unit may have more than one power input. To reduce the risk of energy or shock hazard, disconnect all power inputs before servicing the unit.	Dieses Gerät kann mehr als eine Leistungsaufnahme. Um das Risiko von Energie oder Gefahr eines elektrischen Schlags zu reduzieren, trennen Sie alle Macht Eingaben, bevor Wartungsarbeiten an der Einheit.	Cette unité peut avoir plus d'une entrée d'alimentation. Pour réduire le risque de danger de l'énergie ou de choc, débranchez toutes les entrées d'alimentation avant de réparer l'unité.	Esta unidad puede tener más de una entrada de energía. Para reducir el riesgo de peligro de descargas eléctricas o descargas eléctricas, desconecte todas las entradas de alimentación antes de reparar la unidad.	Questa unità può avere più di un ingresso di alimentazione. Per ridurre il rischio di pericolo legato all'alimentazione o a scosse elettriche, scollegare tutti gli ingressi di alimentazione prima di eseguire la manutenzione dell'unità.
To ensure adequate cooling of the equipment, a 2 inch unobstructed space must be provided around all sides of the unit.	Um die Kühlung des Gerätes nicht zu beeinträchtigen, ist es notwendig, an allen Seiten des Gerätes ca 5 cm Raum zu lassen.	Afin de ne pas nuire au processus de refroidissement, il est nécessaire de laisser un espace d'environ 5 cm de chaque côté de l'appareil.	No bloquee las ranuras de ventilación del equipo, ya que los componentes podrían sobrecalentarse y sufrir daños.	Per assicurare un raffreddamento adeguato dell'apparecchio, è necessario lasciare uno spazio di 2 pollici su tutti i lati dell'unità.
The Power Socket shall be installed near the equipment and shall be easily accessible.	Stellen Sie das Gerät in der Nähe eines geerdeten Schutzkontaktsteckers so auf, dass der Stecker leicht erreichbar und zugänglich ist.	Placez l'appareil près d'une prise de courant facilement accessible.	Para evitar el riesgo de choque eléctrico o de incendio, reemplace el fusible con otro del mismo tipo y capacidad nominal.	La presa elettrica deve essere installata in prossimità dell'apparecchio e deve essere facilmente accessibile.
To prevent the risk of shock or fire hazard, replace fuse with same type and rating.	Zur Vermeidung der Stromschlag - und Feuergefahr beim Auswechseln Sicherungen des gleichen Typs und der gleichen Nennleistung einsetzen.	Afin d'éviter tout risque d'incendie ou d'électrocution, remplacez les fusibles par des fusibles de même type et de même ampérage.	Para su propia protección, cerciórese de que todas las conexiones eléctricas de los servicios públicos, incluyendo la puesta a tierra, las líneas telefónicas y el sistema de tuberías de agua metálicas internas, si las hubiera, estén conectadas entre sí.	Per prevenire il rischio di scosse o il pericolo di incendio, sostituire il fusibile con uno dello stesso tipo e di uguale portata.
CAUTION: The ground lug is a main earth terminal that must be permanently connected to earth.	VORSICHT: Die Erdungsöse ist einer der wichtigsten Erdungsklemme, die dauerhaft auf die Erde angeschlossen werden muss.	ATTENTION: La cosse de terre est une borne de terre principale qui doit être connectée en permanence à la terre.	PRECAUCIÓN: El terminal de tierra es un terminal de tierra principal que debe estar permanentemente conectada a la tierra.	ATTENZIONE: l'aletta di terra è il terminale di terra principale e deve essere collegata a terra costantemente.



SAFETY WARNINGS AND PRECAUTIONS

CAUTION: To avoid possible damage to either the StreamLine switch or the IP end points, do not power up the StreamLine switch until all wiring has been completed and all IP end points are connected.

Wiring changes at cross-connect panels must always be performed with the StreamLine switch powered down, never work on a cross-connect panel with live wires.

VORSICHT: Um mögliche Schäden am StreamLine-Switch oder den IP-Endpunkten zu vermeiden, schalten Sie den StreamLine-Switch erst ein, wenn die Verkabelung abgeschlossen und alle IP-Endpunkte angeschlossen sind.

Änderungen an der Verkabelung an der Verbindungskonsole dürfen nur bei ausgeschaltetem StreamLine-Switch ausgeführt werden. Arbeiten Sie niemals an einer Verbindungskonsole mit spannungs führenden Leitungen.

ATTENTION : pour éviter d'endommager le commutateur StreamLine ou les points d'extrémité IP, ne mettez pas le commutateur StreamLine en marche avant d'avoir terminé tous les branchements nécessaires et que tous les points d'extrémité IP aient été connectés.

Les modifications aux câblages dans les tableaux d'interconnexion doivent toujours être effectuées lorsque le commutateur StreamLine est éteint. Ne travaillez jamais dans un tableau d'interconnexion lorsque les câbles sont sous tension.

PRECAUCIÓN: para evitar posibles daños en el conmutador StreamLine o los puntos finales de IP, no encienda el conmutador StreamLine hasta que se haya terminado todo el cableado y estén conectados todos los puntos finales de IP.

Los cambios de cableado en los paneles de contacto cruzado deben realizarse siempre con el conmutador StreamLine apagado. No trabaje nunca en paneles de conexión cruzada con corriente.

ATTENZIONE: per evitare possibili danni all'interruttore StreamLine o ai punti terminali IP, non accendere l'interruttore StreamLine prima del completamento del cablaggio e del collegamento di tutti i punti terminali IP.

Le modifiche al cablaggio dei pannelli di interconnessione devono essere sempre eseguite con l'interruttore StreamLine spento; mai lavorare su un pannello di interconnessione con fili sotto tensione.



SAFETY WARNINGS AND PRECAUTIONS (CONTINUED)

Access to the interior of this unit shall be made only by a qualified technician.	O acesso ao interior desta unidade deve ser feito apenas por um técnico qualificado.	Alleen bevoegde technici hebben toegang tot de binnenkant van dit apparaat.	L'accès à l'intérieur de l'unité ne doit être effectué que par un technicien qualifié.	El acceso al interior de esta unidad solo está permitida a un técnico calificado.
This unit may have more than one power input. To reduce the risk of energy or shock hazard, disconnect all power inputs before servicing the unit.	Esta unidade pode ter mais do que uma entrada de energia. Para reduzir o risco de choque eléctrico, desligue todas as entradas de energia antes de qualquer tarefa de manutenção na unidade.	Dit apparaat kan meer dan één voedingsingang hebben. Koppel vóór onderhoudswerkzaamheden aan het apparaat alle voedingskabels los om het risico op elektrische schokken te voorkomen.	Cette unité peut avoir plus d'une entrée d'alimentation. Pour réduire les risques de choc électrique ou d'électrocution, débranchez toutes les entrées d'alimentation avant d'intervenir sur l'appareil.	Esta unidad puede tener más de una entrada de alimentación. Para reducir el riesgo de una descarga de energía eléctrica, desconecte todas las entradas de alimentación antes de realizar tareas de mantenimiento a la unidad.
To ensure adequate cooling of the equipment, a 2 inch unobstructed space must be provided around all sides of the unit.	Para garantir um arrefecimento adequado do equipamento, deve ser deixado um espaço livre de 5cm em redor da unidade.	Om voor voldoende koeling van het apparaat te zorgen, moet aan alle zijden van het apparaat een ruimte van 5 cm vrij worden gehouden.	Pour assurer un refroidissement adéquat de l'équipement, un espace de 5 cm doit être laissé sur tous les côtés de l'appareil.	Para asegurar una adecuada refrigeración de los equipos, se debe dejar siempre un espacio libre de 2 pulgadas alrededor de la unidad.
The Power Socket shall be installed near the equipment and shall be easily accessible.	A tomada de energia deve estar instalada perto do equipamento, em local de fácil acesso.	Het stopcontact moet in de buurt van de apparatuur worden geïnstalleerd en eenvoudig toegankelijk zijn.	La prise de courant doit être installée à proximité de l'équipement et être facilement accessible.	La toma de alimentación deberá estar instalada cerca del equipo y ser de fácil acceso.
To prevent the risk of shock or fire hazard, replace fuse with same type and rating.	Para evitar o risco de choque eléctrico ou incêndio, substitua o fusível por um do mesmo tipo e características.	Om het risico van schokken of brand te voorkomen, vervang de zekering met hetzelfde type en kwalificatie.	Pour éviter tout risque d'électrocution ou d'incendie, remplacer le fusible avec fusible de même type.	Para evitar el peligro de descarga eléctrica o incendio, reemplace el fusible por uno del mismo tipo y voltaje.
CAUTION: The ground lug is a main earth terminal that must be permanently connected to earth.	ATENÇÃO: A alheta de terra é um terminal eléctrico que deve estar permanentemente ligada à terra.	VOORZICHTIG: De aardaansluiting is een hoofdaardklem die permanent geaard moet zijn.	ATTENTION : La cosse de terre est une borne de terre principale qui doit être reliée en permanence à la terre.	PRECAUCIÓN: La lengüeta de conexión es la principal terminal a tierra y debe estar permanentemente conectada a tierra.

<p>CAUTION: To avoid possible damage to either the StreamLine switch or the IP end points, do not power up the StreamLine switch until all wiring has been completed and all IP end points are connected.</p> <p>Wiring changes at cross-connect panels must always be performed with the StreamLine switch powered down, never work on a cross-connect panel with live wires.</p>	<p>ATENÇÃO: Para evitar possíveis danos no comutador StreamLine ou nos terminais IP, não ligue o comutador StreamLine até que todos os fios tenham sido conectados e os terminais IP estejam ligados.</p> <p>As trocas de fios nos painéis de ligações cruzadas devem ser sempre efectuadas com o comutador StreamLine desligado; nunca trabalhe num painel de ligações cruzadas com fios sob tensão.</p>	<p>VOORZICHTIG: To avoid possible damage to either the StreamLine switch or the IP end points, do not power up the StreamLine switch until all wiring has been completed and all IP end points are connected. schakel de StreamLine-schakelaar pas in als alle draden en IP-eindpunten zijn aangesloten om mogelijke schade aan de StreamLine-schakelaar en de IP-eindpunten te voorkomen.</p> <p>Wiring changes at cross-connect panels must always be performed with the StreamLine switch powered down, never work on a cross-connect panel with live wires. Het wijzigen van de draden op de aansluitpanelen moet altijd bij uitgeschakelde StreamLine-schakelaar worden gedaan; werk nooit aan een aansluitpaneel met onder spanning staande draden.</p>	<p>ATTENTION : pour éviter d'endommager le commutateur StreamLine ou les points d'extrémité IP, ne mettez pas sous tension le commutateur StreamLine avant d'avoir effectué toutes les connexions et connecté tous les points d'extrémité IP.</p> <p>Les modifications de connexions dans les panneaux d'interconnexion doivent toujours être effectuées en mettant le commutateur StreamLine. Ne travaillez jamais dans un panneau d'interconnexion lorsque les connexions sont actives.</p>	<p>PRECAUCIÓN: para evitar posibles daños en el conmutador StreamLine o los puntos finales de IP, no encienda el conmutador StreamLine hasta que se haya terminado todo el cableado y estén conectados todos los puntos finales de IP.</p> <p>Los cambios de cableado en los paneles de contacto cruzado deben realizarse siempre con el conmutador StreamLine apagado. No trabaje nunca en paneles de conexión cruzada con corriente.</p>
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SYSTEM GROUNDING (EARTHING)

General Grounding



WARNING: GROUND ALL SYSTEMS ACCORDING TO THESE INSTRUCTIONS BEFORE YOU CONNECT POWER LEADS. FOLLOW GROUNDING INSTRUCTIONS EXPLICITLY TO ENSURE THE SAFETY OF PERSONNEL.

Cabinets always require redundant and independent equipment grounding conductors between the cabinet and the wiring system ground: an insulated grounding conductor and a supplementary (protective) ground.

Grounding Conductor

The grounding conductor must be an insulated grounding conductor, sized according to the National Electrical Code (NEC) in the United States (NFPA/ANSI 70 Section 250-95, Exception No. 1, and Section 240-4, Exception No. 1).

The grounding conductor is provided as part of the three-wire, 15-Amp, AC-power cord set included with the equipment. If the power cord must be replaced, use a power cord of the same gauge that has the same insulation, number of conductors, and usage ratings.

The grounding conductor must be:

- Not smaller in size than, and equivalent in insulation material and thickness to, the grounded and ungrounded branch circuit supply conductor
- An insulated green wire with yellow stripes
- Part of the circuit that supplies that product or system
- Connected to ground at the service equipment.

Protective Grounding Conductor

Install the protective grounding conductor to the system.

The protective grounding conductor must comply with the general rules for grounding contained in Article 250 of the National Electrical Code, NFPA 70, or Section 10 of the Canadian Electrical Code, CSA C22.1. The protective grounding conductor must not depend on the power cord and plug of the product.



The ground symbol within a circle identifies the terminal to be connected to an external protective conductor. Connect this terminal to earth ground before you make any other connections to the equipment.

The protective grounding conductor must be:

- An Insulated wire, #5 (13mm²) to #14 (2mm²) AWG, with green and yellow stripes
- Connected to the grounding stud on the back of the cabinet.

FCC PART 15 STATEMENT

StreamLine: This digital equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

StreamLine Dongle: This digital 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 instruction manual, 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 to correct the interference by one or more of the following measures:

- Reorient or relocate 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.

INDUSTRY CANADA STATEMENTS

StreamLine: This digital equipment does not exceed Class A limits for radio noise emissions for digital apparatus, set out in Radio Interference Regulation of the Industry Canada.

StreamLine Dongle: This digital equipment does not exceed Class B limits for radio noise emissions from digital apparatus, set out in Radio Interference Regulation of the Industry Canada. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps necessary to correct the interference.

NOTICE D'INDUSTRIE CANADA

StreamLine: Cet équipement ne dépasse pas les limites de Classe A d'émission de bruits radioélectriques pour les appareils numériques, telles que prescrites par le Règlement sur le brouillage radioélectrique établi par l'Industrie Canada.

StreamLine Dongle: Cet équipement n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique établi par l'Industrie Canada. L'exploitation faite en milieu résidentiel peut entraîner le brouillage des réceptions de radio et de télévision, ce qui obligerait le propriétaire ou l'opérateur à prendre les dispositions nécessaires pour en éliminer les causes.

EN55022 AND CISPR22 STATEMENTS

StreamLine: Warning - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

StreamLine Dongle: This is a Class B product.

ENVIRONMENTAL INFORMATION

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT - WEEE

The WEEE (Waste Electrical and Electronic Equipment) legislation aims to raise the level of recycling of electrical and electronic equipment and to encourage designers to create products with recycling in mind.

The Mitel StreamLine and the StreamLine Dongle equipment that you bought have required the extraction and use of natural resources for their production. They may contain hazardous substances that could impact health and the environment.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end-of-life equipment in a sound way.



The crossed-out wheeled bin symbol invites you not to dispose of WEEE as unsorted municipal waste and to collect such WEEE separately.

If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration.

You can also contact us for more information on the environmental performances of our products.

TECHNICAL SUPPORT

North America

1-800-561-0860 or 613-592-7849.

Please have your Technical Support ID Code ready when calling.

Europe, Middle East, Africa

Customer Management Center on +44 1291 436888.

Please have your Channel Support Agreement/Contract Number and password ready when calling.

Asia-Pacific

ap.productsupport@mitel.com and include your Technical Support ID Code.

South-Pacific

spac.support@mitel.com and include your Technical Support ID Code.



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