



ControlSpace EX-1280C

Conferencing Processor

Installation and Operation Guide
Guía de instalación y funcionamiento
Guide d'installation et d'utilisation
Installations- und Bedienungsanleitung
Manuale di installazione e funzionamento
Installatie- en bedieningshandleiding

Please read and keep all safety and use instructions.

This product is intended for installation by professional installers only! This document is intended to provide professional installers with basic installation and safety guidelines for this product in typical fixed-installation systems. Please read this document and all safety warnings before attempting installation.

WARNINGS:



- All Bose products must be installed in accordance with local, state, federal and industry regulations. It is the installer's responsibility to ensure installation of the product is performed in accordance with all applicable codes, including local building codes and regulations. Consult the local authority having jurisdiction before installing this product.
- To reduce the risk of fire or electrical shock, do NOT expose the product to rain, liquids, or moisture.
- Do NOT expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the product.
- Keep the product away from fire and heat sources. Do NOT place naked flame sources, such as lighted candles, on or near the product.
- Do NOT make unauthorized alterations to this product.
- Do NOT use in vehicles or boats.
- The speaker wire and interconnect cables included with this system are not approved for in-wall installation. Please check your local building codes for the correct type of wire and cable required for in-wall installation.
- Provide an earth connection or ensure the socket outlet incorporates a protective earthing connection before connecting the plug to the mains socket outlet.
- Where the mains plug or an appliance coupler is used as the disconnect device, such disconnect device shall remain readily operable.
- Only use the mounting hardware recommended by the rack manufacturer.
- Do not expose products containing batteries to excessive heat (e.g. from storage in direct sunlight, fire or the like).
- The product label is located on the bottom of the product.



This symbol on the product means there is uninsulated, dangerous voltage within the product enclosure that may present a risk of electrical shock.



This symbol on the product means there are important operating and maintenance instructions in this guide.

NOTES:

- Due to ventilation requirements, Bose does not recommend placing the product in a confined space such as in a wall cavity or in an enclosed cabinet.

Information About Products That Generate Electrical Noise (FCC Compliance Notice for US)

This 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 their own expense.

Changes or modifications not expressly approved by Bose Corporation could void the user's authority to operate this equipment.

This product complies with the Canadian ICES-003 Class A specifications.

CAN ICES-3(A)/NMB-3(A)

For Japan:

Provide an earth connection or ensure the socket outlet incorporates a protective earthing connection before connecting the plug to the mains socket.

For Denmark, Finland, Norway, and Sweden:

English: The device must be connected to an outlet with a protective earth connection.

Danish: Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.


Finnish: Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.

Norwegian: Apparatet må tilkoples jordet stikkontakt.

Swedish: Apparaten skall anslutas till jordat uttag.

Important Safety Instructions:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

 This product conforms to all applicable EU directive requirements. The complete Declaration of Conformity can be found at www.Bose.com/compliance.

This Product meets all EN55103-2 immunity requirements for E2 electromagnetic environment.

Product Ratings:

Input Voltage: 100-240 VAC
 Frequency: 50/60 Hz
 Current or Power: 60 W maximum
 Initial turn on inrush current: 20 A @ 120 V; 38 A @ 230 V

Names and Contents of Toxic or Hazardous Substances or Elements

Part Name	Toxic or Hazardous Substances and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent (CR(VI))	Polybrominated Biphenyl (PBB)	Polybrominated diphenylether (PBDE)
PCBs	X	0	0	0	0	0
Metal parts	X	0	0	0	0	0
Plastic parts	0	0	0	0	0	0
Speakers	X	0	0	0	0	0
Cables	X	0	0	0	0	0

This table is prepared in accordance with the provisions of SJ/T 11364.
 O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.
 X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.



This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling helps protect natural resources, human health and the environment. For more information on disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.

For China:



仅适用于 2000m 以下地区安全使用

Only suitable for use at areas with altitude less than 2000 m.



仅适用于非热带气候条件下安全使用

Only suitable for use at non-tropical climate areas.

Lea y conserve todas las instrucciones de uso y seguridad.

Este producto está diseñado para ser instalado únicamente por instaladores profesionales. Este documento está diseñado para proveer las pautas de seguridad e instalación básicas a los instaladores profesionales de este producto en sistemas de instalación fija comunes. Lea este documento y todas las advertencias de seguridad antes de comenzar la instalación.

ADVERTENCIAS:



- Todos los productos Bose deben instalarse conforme a las leyes locales, estatales, federales y del sector. Es responsabilidad del instalador asegurarse de que la instalación del producto se realice conforme a las normas legales correspondientes, incluidas las normas de construcción locales. Consulte a la autoridad local competente antes de instalar este producto.
- Para reducir el riesgo de incendio o descarga eléctrica, NO exponga el producto a la lluvia, líquidos o humedad.
- NO exponga el aparato a goteos o salpicaduras y no coloque encima ni cerca del producto objetos llenos de líquido; por ejemplo, floreros.
- Mantenga el producto lejos del fuego y de fuentes de calor. NO coloque encima ni cerca del producto fuentes de llamas expuestas, como velas encendidas.
- NO realice alteraciones no autorizadas a este producto.
- NO usar en vehículos o embarcaciones.
- El cable del altavoz y los cables de interconexión que se incluyen con este sistema no están aprobados para instalaciones en pared. Compruebe los códigos locales de edificación para verificar cuáles son los tipos correctos de alambre y cable requeridos para instalaciones en pared.
- Proporcione una conexión a tierra o asegúrese de que la toma de corriente incorpore una conexión a tierra protegida antes de conectar el enchufe a la toma de corriente de la red eléctrica.
- Si se utiliza la clavija de conexión de red eléctrica o un acoplador del artefacto como el dispositivo de desconexión, dicho dispositivo de desconexión deberá permanecer listo para funcionar.
- Utilice únicamente las herramientas de montaje que recomienda el fabricante del rack.
- No exponga productos con batería al calor excesivo (por ejemplo, almacenar a la luz directa del sol, cerca de fuego o similar).
- La etiqueta del producto se encuentra en la parte inferior.



Este símbolo en el producto indica que hay voltaje peligroso y sin aislamiento dentro de la carcasa del producto, lo cual podría presentar un riesgo de descarga eléctrica.



Este símbolo en el producto indica que en esta guía se incluyen instrucciones de mantenimiento y funcionamiento importantes.

NOTES:

- Debido a los requisitos de ventilación, Bose no recomienda colocar el producto en espacios reducidos como una cavidad de pared o un gabinete cerrado.

Información acerca de productos que generan ruido eléctrico (aviso de cumplimiento de la FCC para EE. UU.)

Este equipo ha sido sometido a pruebas y se ha comprobado que cumple con los límites de un dispositivo digital Clase A, de acuerdo con la Parte 15 de las reglas de la FCC. Estos límites están diseñados para proporcionar una protección razonable contra interferencias perjudiciales cuando el equipo se utiliza en un entorno comercial. Este equipo genera, usa y puede irradiar energía de radiofrecuencia y, si no se instala y se usa conforme a lo indicado en el manual de instrucciones, podría causar una interferencia perjudicial a las comunicaciones de radio. El funcionamiento de este equipo en un área residencial podría llegar a provocar interferencias perjudiciales, en cuyo caso el usuario deberá corregir dichas interferencias por cuenta propia.


Los cambios o las modificaciones no aprobadas expresamente por Bose Corporation podrían invalidar la autoridad del usuario para operar el equipo.

Este producto cumple con las especificaciones Clase A de la normativa canadiense ICES-003.

CAN ICES-3(A)/NMB-3(A)

Instrucciones de seguridad importantes:

1. Lea estas instrucciones.
2. Guarde estas instrucciones.
3. Preste atención a las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Límpielo solamente con un paño seco.
7. No obstruya ninguna abertura de ventilación. Realice la instalación conforme a las instrucciones del fabricante.
8. No lo instale cerca de ninguna fuente de calor, como radiadores, rejillas de calefacción, estufas u otros aparatos (incluidos los amplificadores) que produzcan calor.
9. No anule el propósito de seguridad del enchufe con conexión a tierra o polarizado. Un enchufe polarizado tiene dos hojas, una más ancha que la otra. Un enchufe con conexión a tierra tiene dos clavijas planas y un tercer conector a tierra. La clavija plana más ancha o el tercer conector son para su seguridad. Si el enchufe suministrado no encaja en la toma de corriente, consulte con un electricista para cambiar la toma de corriente obsoleta.
10. Proteja el cable de alimentación para que nadie lo pise o lo perforo, especialmente en enchufes, receptáculos de tomas múltiples y en el punto desde donde sale del dispositivo.
11. Use solamente los accesorios especificados por el fabricante.
12. Desenchufe este aparato durante tormentas eléctricas o cuando no lo utilice durante períodos prolongados.
13. Derive todas las tareas de mantenimiento a personal calificado. Se requieren tareas de mantenimiento si el aparato se daña de alguna manera; por ejemplo, si se daña el enchufe o el cable de alimentación, si se derrama líquido o si caen objetos dentro del aparato, si se expone el aparato a la lluvia o la humedad, si no funciona normalmente o si se cae.

 Este producto cumple con todos los requisitos correspondientes de la Directiva de la UE. La Declaración de conformidad completa puede encontrarse en www.Bose.com/compliance.

Este producto cumple con todos los requisitos de inmunidad de EN55103-2 para un entorno electromagnético E2.

Especificaciones del Producto:

Voltaje de Entrada: 100-240 VAC

Frecuencia: 50/60 Hz

Consumo: 60 W máximo

Corriente de irrupción inicial en encendido: 20 A @ 120 V; 38 A @ 230 V



Este símbolo significa que el producto no debe desecharse como residuo doméstico y debe enviarse a una planta para tratamiento de residuos apropiada para su reciclado. Una eliminación y reciclado adecuados ayudan a proteger los recursos naturales, la salud humana y el medioambiente. Para más información acerca de la eliminación y el reciclado de este producto, comuníquese con su municipalidad local, un centro de servicios de desecho o la tienda donde compró este producto.

Merci de lire et de conserver le manuel d'instruction et de respecter les consignes de sécurité.

Ce produit doit être installé par un technicien professionnel ! Ce document est destiné à fournir aux techniciens professionnels les directives de montage et de sécurité relatives à ce produit dédié à une installation fixe. Veuillez lire ce document, ainsi que l'ensemble des avertissements de sécurité avant de procéder à l'installation.

AVERTISSEMENTS :



- Tous les produits Bose doivent être installés dans le respect des réglementations locales et nationales. Il est de la responsabilité de l'installateur professionnel de s'assurer que l'installation du produit est effectuée conformément à tous les codes applicables et dans le respect des réglementations en vigueur, y compris dans le cadre des réglementations du bâtiment où l'installation a lieu. Consultez les autorités locales compétentes avant d'installer ce produit.
- Pour limiter les risques d'incendie ou d'électrocution, n'exposez PAS l'appareil à la pluie, à toutes formes de liquides ou à l'humidité.
- Protégez l'appareil de TOUT risque de ruissellement ou d'éclaboussure. Ne placez pas d'objets contenant des liquides, tels que des vases, sur le produit ou à proximité.
- Tenez le produit à l'écart du feu et des sources de chaleur. Ne placez JAMAIS d'objets enflammés, tels que des bougies allumées, sur l'appareil ou à proximité.
- Veillez à NE PAS effectuer de modifications non autorisées sur ce produit.
- Veillez à NE PAS utiliser cet appareil dans des véhicules ou des bateaux.
- Les câbles d'enceintes et d'interconnexion fournis avec cet appareil ne sont pas compatibles avec une installation encastrée. Consultez la réglementation locale pour connaître le type de câblage requis pour une installation encastrée.
- Avant de brancher l'appareil à une prise de courant électrique, vérifiez que celle-ci soit bien raccordée à la terre ou qu'elle est dotée d'une protection par mise à la terre.
- Lorsque l'alimentation de secteur ou la prise multiple est utilisée comme dispositif de débranchement de l'appareil, ce dispositif de débranchement doit rester facilement accessible.
- Utilisez exclusivement le matériel de montage en rack recommandé par le fabricant.
- N'exposez pas les produits contenant des piles ou des batteries à une chaleur excessive (ne les placez pas à la lumière directe du soleil, près d'un feu ou de toute autre source de chaleur).
- L'étiquette d'identification du produit est située au-dessous de l'appareil.



Ce symbole sur le produit indique la présence d'une tension électrique dangereuse non isolée à l'intérieur de l'appareil, susceptible d'induire un risque de choc électrique.



Ce symbole sur le produit signale les instructions importantes mentionnées dans le guide d'installation, relatives au fonctionnement et à l'entretien de l'appareil.

REMARQUES :

- Pour assurer une ventilation correcte, Bose déconseille de placer ce produit dans un espace confiné tel qu'une cavité murale ou un placard fermé.

Informations sur les produits générateurs de bruit électrique (Déclaration de conformité FCC pour les États-Unis)


Ce matériel a fait l'objet de tests prouvant sa conformité aux limites imposées aux appareils numériques de classe A, conformément à la partie 15 des réglementations de la FCC. Ces limites sont conçues pour offrir une protection raisonnable contre les interférences nuisibles lorsque l'appareil est utilisé en environnement commercial. Cet appareil génère, utilise et est susceptible d'émettre de l'énergie à certaines fréquences radio. À ce titre, s'il n'est pas installé ou utilisé conformément aux instructions, il est susceptible de perturber les communications radio. L'utilisation de cet équipement dans une zone résidentielle risque de provoquer des interférences nuisibles, auquel cas l'utilisateur devra remédier au problème à ses propres frais.

Toute modification non autorisée expressément par Bose Corporation est susceptible d'annuler le droit de l'utilisateur à mettre en œuvre cet appareil.

Ce produit est conforme aux spécifications de la réglementation ICES-003 classe A du Canada.
CAN ICES-3(A)/NMB-3(A)

Consignes de sécurité importantes :

1. Veuillez lire ces consignes.
2. Veuillez conserver ces consignes.
3. Respectez tous les avertissements.
4. Suivez toutes les consignes.
5. N'utilisez pas cet appareil à proximité d'eau ou de toute autre source d'humidité.
6. Utilisez uniquement un chiffon sec pour le nettoyage.
7. Ne bloquez jamais les orifices d'aération. Suivez les instructions du fabricant pour l'installation.
8. N'installez pas cet appareil à proximité d'une quelconque source de chaleur, telle qu'un radiateur, une arrivée d'air chaud, un four ou tout autre appareil (notamment les amplificateurs) produisant de la chaleur.
9. Veillez à profiter de la sécurité offerte par les installations de type terre ou polarisées. Les fiches polarisées sont équipées de deux bornes de largeurs différentes. Les fiches de type terre sont équipées de deux bornes et d'un orifice pour la mise à la terre. Cet orifice (fiche femelle) est destiné à assurer votre sécurité. Si la fiche fournie ne s'adapte pas à votre prise de courant, consultez un électricien pour qu'il remplace cette prise obsolète.
10. Protégez le cordon d'alimentation contre les risques de piétinement ou de pincement, notamment au niveau des fiches, des prises de courant et des branchements à l'appareil.
11. Utilisez uniquement les accessoires spécifiés par le fabricant.
12. Débranchez cet appareil pendant les orages ou au cours des longues périodes de non-utilisation.
13. Confiez toute réparation à du personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit (endommagement du cordon d'alimentation ou de la fiche électrique, renversement d'un liquide ou de tout objet sur l'appareil, exposition de l'appareil à la pluie ou à l'humidité, mauvais fonctionnement, chute de l'appareil, etc.)

 Ce produit est conforme à toutes les directives en vigueur de l'Union européenne. La déclaration de conformité complète est disponible à l'adresse www.Bose.com/compliance.

Ce produit répond aux critères d'immunité de la norme EN55103-2 pour les environnements électromagnétiques classés E2.

Spécifications du produit :

Tension d'entrée : 100 - 240 VAC

Fréquence : 50/60 Hz

Courant ou puissance : 60 W maximum

Appel de courant au démarrage : 20 A @ 120 V; 38 A @ 230 V



Ce symbole signifie que le produit ne doit pas être jeté avec les déchets ménagers, mais doit être déposé dans un centre de collecte approprié pour recyclage. La mise au rebut adéquate et le recyclage permettent de protéger les ressources naturelles, la santé humaine et l'environnement. Pour plus d'informations sur l'élimination et le recyclage de ce produit, contactez votre mairie, votre service d'enlèvement des ordures ou le magasin où vous avez acheté ce produit.

Bitte lesen Sie alle Sicherheitshinweise und Gebrauchsanleitungen durch und bewahren Sie sie auf.

Dieses Produkt darf nur von fachkundigen Monteuren installiert werden! Dieses Dokument soll fachkundigen Monteuren grundlegende Installations- und Sicherheitsrichtlinien für dieses Produkt in typischen Festinstallationssystemen bieten. Bitte lesen Sie dieses Dokument und alle Sicherheitshinweise vor der Installation durch.

WARNUNG:



- Alle Produkte von Bose müssen gemäß den örtlichen und staatlichen Vorschriften sowie gemäß allen Branchenbestimmungen verwendet werden. Der Monteur ist dafür verantwortlich, sicherzustellen, dass die Installation des Produkts gemäß allen geltenden Vorschriften durchgeführt wird, einschließlich örtlicher Bauvorschriften und Bestimmungen. Wenden Sie sich vor der Installation dieses Produkts an die zuständige abnehmende Behörde.
- Um Brände und Stromschläge zu vermeiden, darf dieses Produkt NICHT Regen, Flüssigkeiten oder Feuchtigkeit ausgesetzt werden.
- Schützen Sie das Gerät vor tropfenden oder spritzenden Flüssigkeiten, und stellen Sie KEINE mit Flüssigkeiten gefüllten Gefäße (z. B. Vasen) auf das Gerät oder in die Nähe des Geräts.
- Halten Sie das Produkt von Feuer und Wärmequellen fern. Stellen Sie KEINE brennenden Kerzen oder ähnliches auf das Gerät oder in die Nähe des Geräts.
- Nehmen Sie KEINE nicht genehmigten Änderungen an diesem Produkt vor.
- Verwenden Sie das Produkt NICHT in Fahrzeugen oder Booten.
- Die mit diesem System mitgelieferten Lautsprecher- und Verbindungskabel sind nicht für den Wandeinbau zugelassen. Bitte sehen Sie in Ihren örtlichen Bauvorschriften wegen des korrekten Kabeltyps nach, der für den Wandeinbau erforderlich ist.
- Nutzen Sie einen Erdungsanschluss oder stellen Sie sicher, dass an der Steckdose ein Erdungsschutz vorliegt, bevor Sie den Netzstecker an die Steckdose anschließen.
- Falls Sie den Netzstecker oder eine Mehrfachsteckdose verwenden, um das Gerät von der Stromversorgung zu trennen, sollten Sie sicherstellen, dass Sie jederzeit auf den Stecker zugreifen können.
- Verwenden Sie nur die vom Rack-Hersteller empfohlenen Montagehilfsmittel.
- Setzen Sie Produkte mit Batterien keiner großen Hitze aus (z. B. durch Aufbewahrung im direkten Sonnenlicht, Feuer oder ähnliches).
- Das Etikett mit der Produktbezeichnung befindet sich auf der Unterseite des Geräts.



Dieser Warnhinweis auf dem Produkt warnt vor nicht isolierten gefährlichen Spannungsquellen im Inneren des Produktes, die ein Stromschlagrisiko darstellen können. Es besteht die Gefahr von Stromschlägen!



Dieser Warnhinweis auf dem Produkt weist auf wichtige Bedien- und Wartungsinformationen in dieser Anleitung hin.

HINWEISE:

- Aufgrund der Belüftungsanforderungen sollten Sie das Produkt nicht in einem geschlossenen Raum, zum Beispiel in einer Wandnische oder in einem geschlossenen Schrank, aufstellen.

Informationen über Produkte, die elektrisches Rauschen verursachen (Hinweis zur FCC-Einhaltung für die USA)

Dieses Gerät wurde geprüft. Es stimmt mit den Regelungen für Geräte der Klasse A gemäß Teil 15 der FCC-Vorschriften überein. Diese Grenzwerte sollen einen angemessenen Schutz gegen elektromagnetische Störungen beim Betrieb in gewerblicher Umgebung gewährleisten. Dieses Gerät erzeugt und verwendet Hochfrequenzstrahlung und kann sie auch aussenden. Daher verursacht das Gerät, wenn die Installation und Benutzung nicht in Übereinstimmung mit dieser Bedienungsanleitung erfolgt, möglicherweise Störungen des Funkverkehrs. Beim Betrieb dieses Geräts in Wohnungen können erhebliche Störungen des Funkverkehrs verursacht werden. Eventuell daraus entstehende Kosten trägt allein der Benutzer des Geräts.

Veränderungen am Gerät, die nicht durch die Bose Corporation autorisiert wurden, können zur Folge haben, dass die Betriebserlaubnis für das Gerät erlischt.

Dieses Produkt erfüllt die kanadische Richtlinie ICES-003, Klasse A.

CAN ICES-3(A)/NMB-3(A)

Wichtige Sicherheitshinweise:

1. Lesen Sie die folgenden Anweisungen.
2. Bewahren Sie die Anweisungen auf.
3. Beachten Sie alle Warn- und Sicherheitshinweise.
4. Befolgen Sie alle Anweisungen.
5. Verwenden Sie dieses Gerät nicht in der Nähe von Wasser.
6. Reinigen Sie das Gerät nur mit einem sauberen, trockenen Tuch.
7. Achten Sie darauf, dass die Lüftungsöffnungen nicht blockiert sind. Stellen Sie das Gerät nur in Übereinstimmung mit den Herstelleranweisungen auf.
8. Stellen Sie das Gerät nicht in der Nähe von Wärmequellen auf, wie zum Beispiel Heizkörpern, Wärmespeichern, Öfen oder anderen Geräten (auch Verstärkern), die Wärme erzeugen.
9. Achten Sie darauf, dass die Schutzfunktion des Schutzkontaktsteckers nicht beeinträchtigt wird. Ein gepolter Stecker hat zwei Stromkontakte, von denen einer breiter als der andere ist. Ein Schutzkontaktstecker hat zwei Stromkontakte und einen dritten Erdungskontakt. Der dritte Kontakt dient der Sicherheit. Falls der mitgelieferte Stecker nicht in Ihre Steckdose passt, wenden Sie sich an einen qualifizierten Elektriker, um die Steckdose auszutauschen.
10. Verlegen Sie das Netzkabel so, dass es keine Stolpergefahr darstellt und nicht beschädigt werden kann – insbesondere im Bereich von Steckern und Steckdosen und dort, wo das Netzkabel aus dem Gerät herausgeführt wird.
11. Verwenden Sie nur Zubehör-/Anbauteile, die vom Hersteller zugelassen sind.
12. Ziehen Sie das Netzkabel bei Gewitter oder bei längerer Nichtbenutzung des Gerätes aus der Steckdose.
13. Alle Reparatur- und Wartungsarbeiten nur von qualifiziertem Kundendienstpersonal durchführen lassen. Wartungsarbeiten sind in folgenden Fällen nötig: Bei jeglichen Beschädigungen wie z. B. des Netzkabels oder Netzsteckers, wenn Flüssigkeiten oder Gegenstände in das Gehäuse gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, fallen gelassen wurde oder nicht ordnungsgemäß funktioniert.

 Dieses Produkt entspricht allen Anforderungen der geltenden EU-Richtlinien. Die vollständige Konformitätserklärung ist einsehbar unter www.Bose.com/compliance.

Dieses Produkt erfüllt alle Immunitätsanforderungen nach EN55103-2 für elektromagnetische E2-Umgebungen.

Leistungsdaten:

Eingangsspannung: 100–240 VAC

Frequenz: 50/60 Hz

Nennleistung: Max. 60 W

Einschaltstrom bei erstem Einschalten: 20 A @ 120 V; 38 A @ 230 V



Dieses Symbol bedeutet, dass das Produkt nicht mit dem Hausmüll entsorgt werden darf, sondern bei einer geeigneten Recycling-Sammelstelle abgegeben werden muss. Die ordnungsgemäße Entsorgung und das Recycling tragen dazu bei, die natürlichen Ressourcen, die Gesundheit und die Umwelt zu schützen. Weitere Informationen zur Entsorgung und zum Recycling dieses Produkts erhalten Sie von Ihrer zuständigen Kommune, Ihrem Entsorgungsdienst oder dem Geschäft, in dem Sie dieses Produkt gekauft haben.

Leggere e conservare tutte le istruzioni per la sicurezza e per l'uso.

Questo prodotto deve essere installato esclusivamente da installatori professionisti. Il presente documento ha lo scopo di fornire agli installatori professionisti le istruzioni di base per l'installazione e la sicurezza del prodotto in tipici impianti da installazione fissa. Prima dell'installazione, leggere questo documento e le avvertenze sulla sicurezza.

AVVERTENZE:



- Tutti i prodotti Bose devono essere installati in conformità con gli standard locali, statali, federali e di settore. È responsabilità dell'installatore assicurare che l'installazione del prodotto sia eseguita in conformità con tutte le normative vigenti, compresi i regolamenti locali per l'integrazione degli apparati. Prima di installare il prodotto, chiedere informazioni all'autorità locale preposta.
- Per ridurre il rischio di incendio o scosse elettriche, il prodotto NON deve essere esposto a pioggia, liquidi o umidità.
- NON esporre l'apparecchio a gocce o getti di liquidi e non porre oggetti contenenti liquidi quali vasi sopra o in prossimità del prodotto.
- Tenere il prodotto lontano dal fuoco e da fonti di calore. NON collocare sorgenti di fiamme libere (ad esempio, candele accese) sul prodotto o in prossimità di esso.
- NON apportare alterazioni non autorizzate al prodotto.
- NON utilizzare all'interno di veicoli o imbarcazioni.
- I cavi per diffusori e di interconnessione forniti in dotazione con questo sistema non sono approvati per l'installazione all'interno di muri. Consultare le norme locali per l'edilizia per individuare i tipi di cavi richiesti per l'installazione all'interno di muri.
- Dotare la presa di messa a terra oppure accertarsi che la stessa sia dotata di messa a terra di protezione prima di collegare la spina di alimentazione.
- La spina dell'alimentazione o dell'accoppiatore deve essere raggiungibile facilmente e rapidamente se utilizzata come dispositivo di spegnimento.
- Utilizzare esclusivamente l'hardware di montaggio raccomandato dal produttore dell'unità rack.
- Non esporre prodotti contenenti batterie a un calore eccessivo (ad esempio luce diretta del sole, fuoco o simili).
- L'etichetta identificativa è situata sul fondo del prodotto.



Questo simbolo sul prodotto indica la presenza di tensioni pericolose non isolate all'interno del telaio del prodotto e del conseguente rischio di scosse elettriche.



Questo simbolo sul prodotto segnala istruzioni importanti di funzionamento e di manutenzione presenti in questa guida.

NOTE:

- A causa dei requisiti di ventilazione, Bose sconsiglia di posizionare il prodotto in spazi chiusi o angusti, ad esempio nicchie a parete o armadietti.

Informazioni sui prodotti che generano interferenze elettriche (conformità FCC per gli Stati Uniti)


Questa apparecchiatura è stata sottoposta a collaudo ed è risultata conforme ai limiti relativi ai dispositivi digitali di Classe A previsti dalla Parte 15 delle norme FCC. Tali limiti sono stati fissati allo scopo di assicurare un'adeguata protezione da interferenze nocive quando l'apparecchiatura è utilizzata in un'installazione commerciale. Questa apparecchiatura genera, utilizza e può irradiare energia a radiofrequenza e, se non installata e utilizzata in conformità con il manuale di istruzioni, può causare interferenze con le locali comunicazioni radiofoniche. L'utilizzo di questa apparecchiatura in un'area residenziale può provocare interferenze nocive, nel qual caso l'utente dovrà adottare misure correttive a proprie spese.

Eventuali modifiche o alterazioni non espressamente approvate da Bose Corporation possono rendere nulla l'autorizzazione dell'utente all'utilizzo dell'apparecchiatura stessa.

Questo prodotto è conforme alle specifiche canadesi ICES-003 di Classe A.
CAN ICES-3(A)/NMB-3(A)

Informazioni importanti sulla sicurezza:

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Prestare attenzione a tutte le avvertenze.
4. Seguire tutte le istruzioni.
5. Non utilizzare l'apparecchio in prossimità di acqua.
6. Per la pulizia utilizzare un semplice panno asciutto.
7. Non ostruire le aperture di ventilazione. Installare il prodotto in conformità con le istruzioni fornite dal produttore.
8. Non installare i diffusori in prossimità di fonti di calore, quali termosifoni, radiatori, stufe o altri apparecchi (compresi gli amplificatori) che generino calore.
9. Non danneggiare le parti di sicurezza della spina polarizzata o con messa a terra. Una spina polarizzata è dotata di due poli, uno più largo dell'altro. Una spina con messa a terra è dotata di due poli e di un terzo terminale di massa. Il polo più largo o il terzo terminale sono presenti per sicurezza. Se la spina in dotazione non è adatta alla presa, rivolgersi a un elettricista per la sostituzione della presa obsoleta.
10. Evitare che il cavo di alimentazione venga calpestato o schiacciato, soprattutto in corrispondenza di spine, prese e nel punto di uscita dall'apparecchio.
11. Utilizzare solo sistemi di fissaggio/accessori specificati dal produttore.
12. Scollegare l'apparecchio durante i temporali o quando non utilizzato per lunghi periodi di tempo.
13. Affidarsi a personale qualificato per tutti gli interventi di assistenza. Gli interventi di assistenza si rendono necessari quando l'apparecchio ha subito danni di qualsiasi tipo, ad esempio se il cavo di alimentazione o la spina sono danneggiati, se è stato versato liquido o sono caduti oggetti sull'apparecchio, se l'apparecchio è stato esposto a pioggia o umidità, se non funziona normalmente o è caduto.

 Questo prodotto è conforme a tutti i requisiti pertinenti delle direttive UE. La dichiarazione di conformità completa è disponibile all'indirizzo www.Bose.com/compliance.

Il prodotto è conforme a tutti i requisiti di immunità EN55103-2 per ambienti elettromagnetici di tipo E2.

Specifiche di prodotto:

Tensione d'ingresso: 100-240 V CA

Frequenza: 50/60 Hz

Valore di corrente o potenza: massimo 60 W

Corrente di spunto all'accensione iniziale: 20 A @ 120 V; 38 A @ 230 V



Questo simbolo indica che il prodotto non deve essere smaltito come rifiuto domestico, ma deve essere consegnato a una struttura di raccolta appropriata per il riciclaggio. Uno smaltimento e un riciclaggio corretti aiutano a preservare le risorse naturali, la salute e l'ambiente. Per ulteriori informazioni sullo smaltimento e sul riciclaggio di questo prodotto, rivolgersi alle autorità locali, al servizio di smaltimento dei rifiuti o al negozio presso il quale è stato acquistato.

Lees alle veiligheidsinstructies en de gebruiksaanwijzing door en bewaar deze.

Dit product is uitsluitend bestemd voor installatie door professionele installateurs! Dit document is bedoeld om professionele installateurs essentiële installatie- en veiligheidsrichtlijnen te bieden voor dit product in standaardsystemen voor vaste installatie. Lees dit document en alle veiligheidswaarschuwingen voordat u een systeem probeert te installeren.

WAARSCHUWINGEN:

- Alle Bose-producten moeten worden geïnstalleerd volgens de plaatselijke en landelijke voorschriften en industriënormen. Het is de verantwoordelijkheid van de installateur om ervoor te zorgen dat de installatie van het product wordt uitgevoerd volgens alle van toepassing zijnde voorschriften, inclusief plaatselijke bouwvoorschriften. Neem contact op met de juiste plaatselijke overheidsinstanties voordat u dit product installeert.
- Om het risico op brand of elektrische schokken te verlagen, mag het product NIET worden blootgesteld aan regen, vloeistof of vocht.
- Stel dit apparaat NIET bloot aan druipende of spattende vloeistoffen en plaats geen met vloeistof gevulde voorwerpen, zoals vazen, op of bij het apparaat.
- Houd het product uit de buurt van vuur en warmtebronnen. Plaats GEEN open vlammen, zoals brandende kaarsen, op of bij het product.
- Er mogen GEEN wijzigingen aan dit product worden aangebracht door onbevoegden.
- NIET in voertuigen of boten gebruiken.
- De bij dit systeem geleverde luidsprekerdraad en kabels zijn niet geschikt voor montage in de muur. Raadpleeg de plaatselijke bouwvoorschriften voor het juiste type bedrading en kabels voor installatie in een muur.
- Zorg voor aarding of controleer of het stopcontact geaard is voordat u de stekker in het stopcontact steekt.
- Wanneer de netstekker of een aansluiting van een apparaat als stroomonderbreker wordt gebruikt, dient deze stroomonderbreker steeds goed bereikbaar te zijn.
- Gebruik uitsluitend het door de fabrikant aanbevolen montagemateriaal.
- Producten die batterijen bevatten niet blootstellen aan overmatige warmte (zoals direct zonlicht, vuur en dergelijke).
- Het productlabel bevindt zich aan de onderkant van het product.



Dit symbool op het product betekent dat er een niet-geïsoleerde, gevaarlijke spanning aanwezig is binnen de behuizing van het product die kan leiden tot een risico op elektrische schokken.



Dit symbool op het product betekent dat deze handleiding belangrijke bedienings- en onderhoudsinstructies bevat.

OPMERKINGEN:

- Omwille van de ventilatievereisten raadt Bose af om het product in een besloten ruimte te plaatsen, zoals in een nis in de muur of een dichte kast.

Informatie over producten die elektrische ruis genereren (FCC Compliance Notice voor de VS)

Dit apparaat is getest en voldoet aan de limieten voor een digitaal apparaat van de klasse A, volgens deel 15 van de FCC-voorschriften. Deze limieten zijn bedoeld om redelijke bescherming te bieden tegen schadelijke storing bij installatie in een handelsomgeving. Dit apparaat genereert en gebruikt radiofrequente energie en kan deze uitstralen en het kan, als het niet wordt geïnstalleerd en gebruikt volgens de instructies, schadelijke storing veroorzaken aan radiocommunicatie. Gebruik van dit apparaat in een woonwijk kan schadelijke storing veroorzaken. In dit geval moet de gebruiker de storing op eigen kosten verhelpen.


Veranderingen of aanpassingen die niet uitdrukkelijk zijn goedgekeurd door Bose Corporation kunnen leiden tot het vervallen van de bevoegdheid van de gebruiker om dit apparaat te gebruiken.

Dit product voldoet aan de specificaties van de Canadese ICES-003 klasse A.

CAN ICES-3(A)/NMB-3(A)

Belangrijke veiligheidsinstructies:

1. Lees deze instructies door.
2. Bewaar deze instructies.
3. Neem alle waarschuwingen in acht.
4. Volg alle instructies.
5. Gebruik dit apparaat niet in de buurt van water.
6. Alleen met een droge doek reinigen.
7. Zorg dat u de ventilatieopeningen niet blokkeert. Installeer het apparaat volgens de instructies van de fabrikant.
8. Installeer het product niet in de buurt van warmtebronnen, zoals radiatoren, warmteroosters, kachels of andere apparaten (waaronder versterkers) die warmte produceren.
9. Schakel de functie van de gepolariseerde of geaarde stekker niet uit. Een gepolariseerde stekker heeft twee poten, waarvan de ene breder is dan de andere. Een geaarde stekker heeft twee poten en een pin voor de aarding. De bredere poot of de derde poot is bedoeld voor uw veiligheid. Als de bijgeleverde stekker niet in het stopcontact past, neemt u contact op met een elektricien om het verouderde stopcontact te vervangen.
10. Zorg dat er niet op het netsnoer wordt gelopen en dat het niet wordt afgeknelld, met name bij stekkers, stopcontacten en het punt waar deze uit het apparaat komen.
11. Gebruik uitsluitend aansluitstukken/accessoires die door de fabrikant worden gespecificeerd.
12. Haal de stekker van dit apparaat uit het stopcontact bij onweer of als het langere tijd niet wordt gebruikt.
13. Laat alle reparaties en onderhoud over aan bevoegde servicemedewerkers. Onderhoud is vereist als het apparaat is beschadigd, als bijvoorbeeld een elektriciteits snoer of stekker is beschadigd, als er vloeistof in het apparaat is gemorst of voorwerpen in het apparaat zijn gevallen, als het apparaat is blootgesteld aan regen of vocht, of als het niet normaal werkt of is gevallen.

 Dit product voldoet aan alle vereisten van de van toepassing zijnde EU-richtlijnen. De volledige conformiteitsverklaring kunt u vinden op www.Bose.com/compliance.

Dit product voldoet aan alle immuniteitsvereisten van EN55103-2 voor een E2 elektromagnetische omgeving.

Productvermogen:

Ingangsspanning: 100 - 240 VAC

Frequentie: 50/60 Hz

Stroomsterkte: Maximaal 60 W

Initiële inschakelstroom: 20 A @ 120 V; 38 A @ 230 V



Dit symbool betekent dat het product niet mag worden weggegooid als huishoudelijk afval en naar een geschikt inzamelpunt voor recycling moet worden gebracht. Het op de juiste wijze afvoeren en recyclen helpt natuurlijke hulpbronnen, de menselijke gezondheid en het milieu te beschermen. Voor meer informatie over het afvoeren en recyclen van dit product neemt u contact op met de gemeente waar u woont, de afvalverwerkingsdienst of de winkel waar u dit product hebt gekocht.

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Product Overview

Thank you for choosing a Bose® ControlSpace® EX-1280C conferencing processor. The ControlSpace EX conferencing solution simplifies audio conferencing design and installation for large meeting areas by offering direct connection of Dante® microphones, simple and elegant analog-to-Dante microphone converters, interfaces for all types of audio conferencing, and time-saving algorithms.

Bose ControlSpace Designer software, available as a free download from pro.Bose.com, enables PC setup, control, and monitoring of the Bose ControlSpace EX-1280C conferencing processor. A separate document, the ControlSpace Designer Software Guide, can be downloaded as a PDF from pro.Bose.com or found inside the ControlSpace Designer software help system.

This document includes basic installation information. The information furnished in this guide is intended to help you install and set up the product, but does not include all details of design, production, or variations of the equipment. Nor does it cover every possible situation that may arise during installation, operation, or maintenance. If you need assistance beyond the scope of this guide, please contact your local Bose Representative or Technical Support specialist. See contact information in the back of this guide.

Package Contents

Each Bose ControlSpace EX-1280C conferencing processor carton contains:

- Bose ControlSpace EX-1280C conferencing processor
- Six (6) green Euroblock connectors (3.81 mm, 6-pin) labeled for audio input
- One (1) green Euroblock connector (3.81 mm, 6-pin) labeled for general purpose input (GPI)
- Four (4) orange Euroblock connectors (3.81 mm, 6-pin) labeled for audio output
- One (1) orange Euroblock connector (3.81 mm, 6-pin) labeled for general purpose output (GPO)
- One (1) black Euroblock connector (3.81 mm, 3-pin) labeled for serial connection
- One (1) black Euroblock connector (3.81 mm, 3-pin) labeled for CC-16 connection
- Sixteen (16) small plastic ties
- IEC power cord (region-specific)
- Installation guide

Compatible Controllers

The EX-1280C is compatible with Bose ControlSpace Remote and third-party controllers such as Crestron® and AMX®, as well as Bose ControlSpace CC-16 and CC-64.

Front Panel

Figure 1. Front Panel view



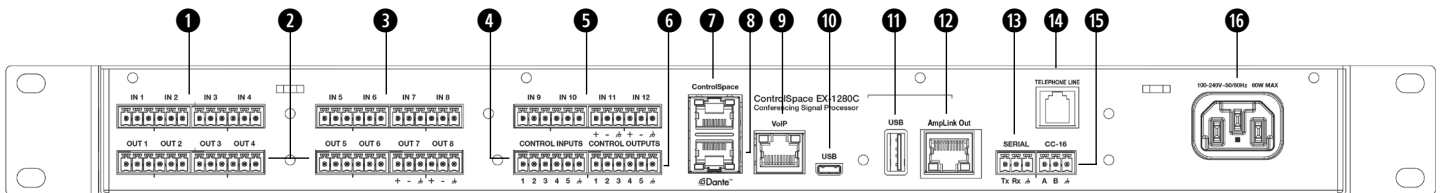
1 Power/Status Indicator: LED illuminates white when the unit is powered on. The LED may blink white or change colors while the system is booting. However, if the LED illuminates and remains red after bootup is complete, please see the Troubleshooting section on page 27.

2 OLED Display: Displays metering and network information

3 Rotary/Press Knob: Use to navigate menus, set IP information, etc.

Rear Panel

Figure 2. Rear panel view



1 3 5 Analog Audio Input: Twelve (12) balanced audio inputs (3.81 mm, 6-pin Euro block), routable to automatic echo cancellation (AEC) using ControlSpace® Designer™ software

2 Analog Audio Output: Eight (8) balanced audio outputs (3.81 mm, 6-pin Euro block)

4 General-Purpose Control Inputs: Five (5) general-purpose input controls (3.81 mm, 6-pin Euro block)

6 General-Purpose Control Outputs: Five (5) general-purpose output controls (3.81 mm, 6-pin Euro block)

7 ControlSpace Network Port: Connect to PC running ControlSpace Designer software, or to a third-party controller, using an RJ-45 connection

8 Dante Network Port: Dante digital audio (64 x 64 channel, 1 Gbps), using an RJ-45 connection

9 VoIP Telephone Connection: SIP 2.0-compliant, using an RJ-45 connection

10 Micro-B USB Port: Connect to PC for soft codecs with stereo input and output

11 USB Port: Not currently supported; available for future updates to ControlSpace EX-1280C

12 AmpLink Out: 8-channel uncompressed, ultra-low latency digital audio output

13 Serial Port: 3-wire RS-232C (DTE) serial interface connection

14 Telephone Line: Supports worldwide analog telephone connections, using an RJ-11 connection

15 CC-16 Port: Supports Bose CC-16 zone controller, or other control interfaces that use a RS-485 connection

16 AC Mains Power Cord Connection: IEC 60320-C14 inlet

Hardware Installation

To set up the ControlSpace EX-1280C for the first time:

1. Download and install ControlSpace® Designer™ software
2. Mount processor in rack
3. Make analog audio connections
4. Make VoIP and far-end connections
5. Connect AmpLink-enabled amplifier
6. Make remote control connections
7. Make GPIO connections
8. Connect power cord
9. Establish network connection
10. Configure processor using ControlSpace Designer software

Note: Due to ventilation requirements, ensure proper enclosure ventilation if the unit is installed in an enclosed space such as a cabinet or credenza.

1. Download and Install ControlSpace Designer Software

Download and install ControlSpace Designer software to a PC on the same local subnet as the EX-1280C conferencing processor. Visit pro.Bose.com to download the latest software version, which includes product firmware, the latest algorithms, and a detailed help system to guide system designers and installers through configuring the processor for use in high-quality audio systems.

2. Mount Processor in Rack

The EX-1280C processor is designed to fit standard 48 cm (19 inch) rack equipment, occupying 1 rack-unit (RU) in height, and requires a mounting depth of 265 mm (10.5 inches) from the front rack rail. Use four fasteners with washers (not supplied) to mount the processor.

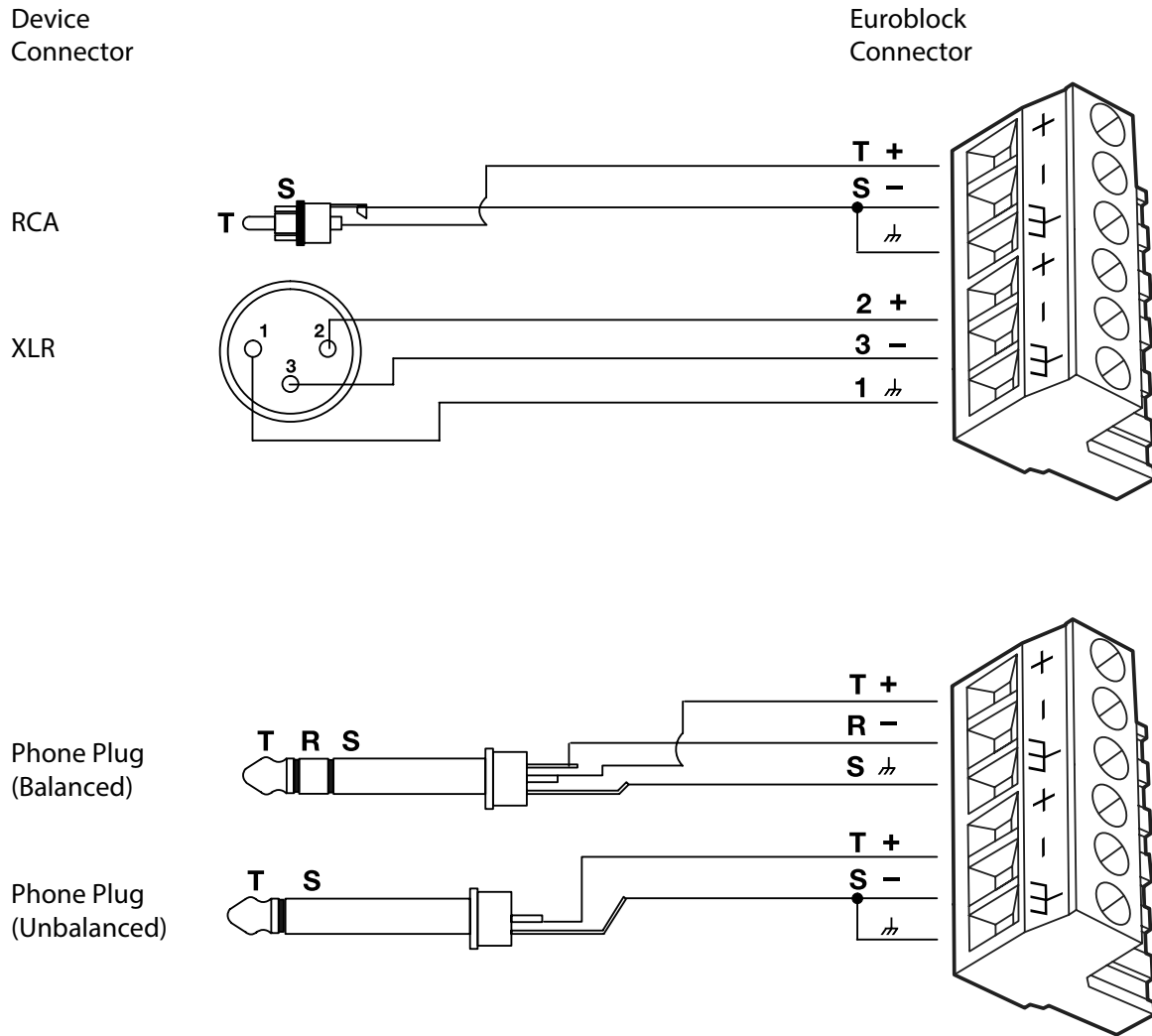
The product uses two variable speed fans and can safely operate in ambient conditions from 0°C - 40°C (32°F - 104°F). Refer to Technical Specifications in this guide for power dissipation ratings.

CAUTION: Only use the mounting hardware recommended by the rack manufacturer.

3. Make Analog Audio Connections

Analog Audio

The EX-1280C includes balanced dual-channel (3.81 mm, 6-pin) Euroblock connectors for analog audio connections. The termination end of each connector includes printed terminal block descriptions.



4. Make VoIP and Far-End Connections

VoIP

Use a CAT 5 cable to connect the **VoIP** port (RJ-45) on the EX-1280C to a compatible SIP IP PBX. For information on configuring the VoIP connection, see the help file in the ControlSpace Designer software.

Telephone Connection

Connect the EX-1280C to a telephone line using the **TELEPHONE LINE** connection port (RJ-11).

Micro-B USB Connection

Connect the EX-1280C to a PC using the Micro-B USB port, to use soft codecs with stereo input and output.

5. Connect AmpLink-Enabled Amplifier

If using a Bose AmpLink-enabled amplifier, connect the EX-1280C's AmpLink output to the amplifier's AmpLink using a shielded CAT 5 cable.

CAUTION: Shielded EIA/TIA 568B straight CAT 5 cable, or equivalent, is required for proper AmpLink operation. Unshielded cable is not supported and may cause AmpLink audio to operate improperly.

The EX-1280C transmits on the first 8-channels of AmpLink. Select the corresponds channels on the amplifier using the amplifier's rear panel switch settings.

6. Make Remote Control Connections

The EX-1280C conferencing processor provides an RS-485 port (**CC-16**) for connecting compatible Bose® controllers, and a RS-232 port (**SERIAL**) for connecting other industry-standard control systems.

CC-16 Port

Use the **CC-16** port on the rear panel to connect a Bose ControlSpace CC-16 controller. Complete the RS-485 network connection using the included 3-pin Euroblock connector. For more information on how to wire these connections, see the CC-16 installation guide available at pro.Bose.com.

You can network up to fifteen (15) CC-16 zone controllers to control the EX-1280C or any device on the Bose ControlSpace control network. An external power supply is required. Note that in addition to wiring the A and B terminals, it is highly recommended to connect the ground terminal from the EX-1280C to each CC-16 zone controller. The maximum distance from the EX-1280C to any CC-16 is 610 m (2000 ft).

Serial Port

Connect industry-standard control systems to the EX-1280C using an RS-232 connection to the **SERIAL** port. Complete the RS-232 connection using the included 3-pin Euroblock connector.

The 3-pin connector for the EX-1280C corresponds to the pinouts of a DE9 connector as follows:

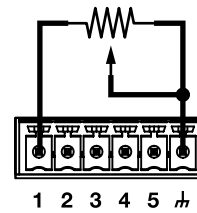
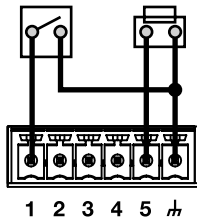
EX-1280C SERIAL Port	DB9 Connector Pinout
Tx	Pin 2 (Receive Data)
Rx	Pin 3 (Transmit Data)
Gnd	Pin 5 (Ground)

7. Make GPIO Connections

Five control inputs (GPI) and five control outputs (GPO) are available on the rear panel of the EX-1280C. Use these to interface the EX-1280C with external control hardware.

General Purpose Inputs

General-purpose control input ports are used to connect external hardware such as potentiometers (to control levels or gains) and switches (to set logic states). Use ControlSpace Designer software to easily assign functions to these external controls.



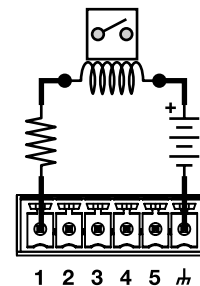
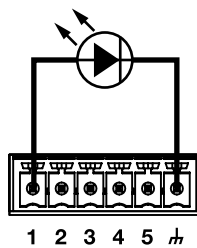
Using Switches

Both toggle switches and pushbuttons can be used with control inputs. Each input terminal is tied to an internal pull-up resistor (2k ohm) so that external switches can be wired directly from input to ground

Using Potentiometers

10k ohm potentiometers can be connected and associated with control gain blocks in a system design. Inputs are compatible (through ControlSpace Designer software) with linear taper potentiometers wired for minimum resistance at the full-clockwise position or at the full-counterclockwise position.

General Purpose Outputs



Current Source Devices

Some devices such as LEDs and low-current relays can be powered directly from control outputs. A maximum source current of 10 mA is available.

Source Limits: 8 VDC, 10 mA (max.)

Current Sink Devices

Devices that require more current than is available from a current-source configuration can use control outputs to sink up to 100 mA when used with external power supplies. Use proper precautions when driving inductive loads.

Sink Limits: 100 mA (max.). External supplies must be \leq 24 VDC.

8. Connect Power Cord

The EX-1280C conferencing processor uses a removable IEC power cord, and can operate with AC mains line voltages from 85 to 264 V AC at 50/60 Hz, 60 W max.

To power on the EX-1280C, connect the power cord to the rear panel. Once powered, boot times may be as long as 40 seconds. A menu appears on the LCD display and the Power LED will change from red to white when the processor is ready for connection/operation.

Note: Make all audio and network connections before connecting the power cord.

9. Establish Network Connection

Connect the EX-1280C either directly to a PC, or through an Ethernet switch. The EX-1280C should be connected to the switch or PC using the ControlSpace port. Ensure that the PC is on the same subnet as the EX-1280C using one of the following three methods:

- Set PC to DHCP and connect a DHCP server to the network. Both the EX-1280C and the PC will obtain an IP address from the DHCP server.
- Set PC to DHCP and without a DHCP server. Both the EX-1280C and the PC will obtain an AutoIP-assigned IP address.
- Set PC to a static IP address and use the front panel to assign the EX-1280C a static address on the same subnet.

For more information, see the ControlSpace Designer Software Guide from **pro.Bose.com** or inside the software help system.

10. Configure Processor with ControlSpace Designer Software

If all the network connections and settings are done correctly, ControlSpace Designer should automatically identify the EX-1280C on the network.

With a network connection in place and ControlSpace Designer software installed, use the Hardware Manager tool inside ControlSpace Designer software to scan and update the processor firmware. Once the processor status reads "Up-to-Date" in the firmware panel, proceed with your system design using ControlSpace Designer software.


For full details on using ControlSpace Designer software to configure, control, and monitor the processor or entire systems built with Bose networked system electronics, consult the help system inside the software, or visit **pro.Bose.com** and download the ControlSpace Software guide.

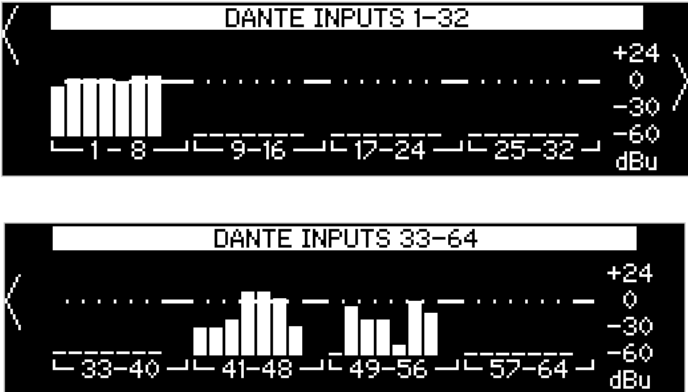
Front Panel Control Menus

The EX-1280C includes front panel control menus that can be used to review and change network settings, display metering for any audio input or output, and change display settings.

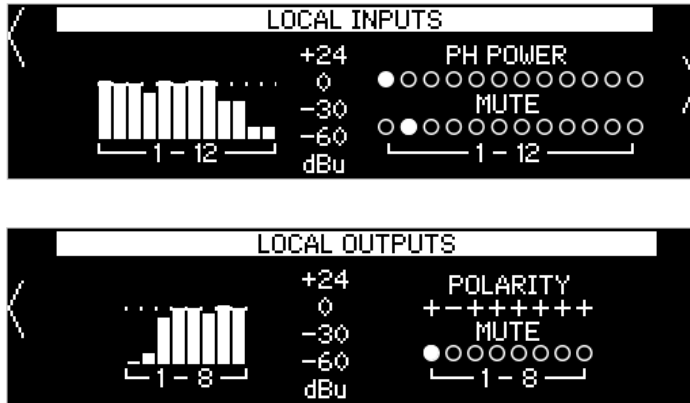
Control Menu Descriptions

The following tables describe each menu item and the various options available to the user from the front panel. To select an item, turn the knob until the item is highlighted. To open that item, push the knob in.

MAIN MENU	
	
Description	<p>The MAIN MENU offers six options:</p> <ul style="list-style-type: none"> • DANTE INPUT • LOCAL IN/OUT • AmpLink • DANTE OUTPUT • VoIP Phone USB • CONFIG
Available Controls	Turn knob until desired menu item is highlighted. Press the knob to open the item.

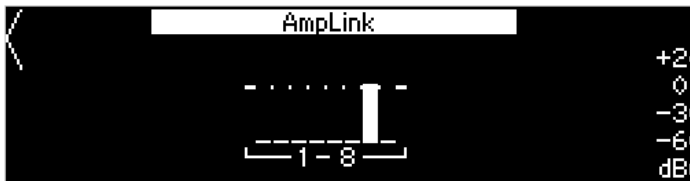
DANTE INPUT	
	
Description	DANTE INPUT displays audio levels (-60 dBu to +24 dBu) for each Dante input channel 1-64.
Available Controls	Channels 1-32 appear on the first screen. Turn the knob clockwise to view Channels 33-64. To return to the MAIN MENU, turn the knob counter-clockwise.

LOCAL IN/OUT



<p>Description</p>	<p>LOCAL INPUTS displays the following information for analog input channels 1 - 12:</p> <ul style="list-style-type: none"> • Audio level (-60 dBu to +24 dBu) • PH POWER: Open circle indicates that there is no phantom power applied to the corresponding input channel. Closed circle indicates that there is phantom power applied to the corresponding input channel. Apply or remove phantom power for each channel using ControlSpace Designer software. • MUTE: Open circle indicates that the corresponding input channel is not muted. Closed circle indicates that the corresponding input channel is muted. Set the mute status for each channel using ControlSpace Designer software. <p>LOCAL OUTPUTS displays the following information for analog output channels 1 - 8:</p> <ul style="list-style-type: none"> • Audio level (-60 dBu to +24 dBu) • POLARITY: Positive polarity is indicated by a "+" symbol. Negative polarity is indicated by a "-" symbol. Set the polarity for each channel using ControlSpace Designer software. • MUTE: Open circle indicates that the corresponding output channel is not muted. Closed circle indicates that the corresponding output channel is muted. Set the mute status for each channel using ControlSpace Designer software.
<p>Available Controls</p>	<p>Input channels 1 - 12 appear on the first screen. Turn the knob clockwise to view output channels 1 - 8. To return to the MAIN MENU, turn the knob counter-clockwise.</p>

AmpLink

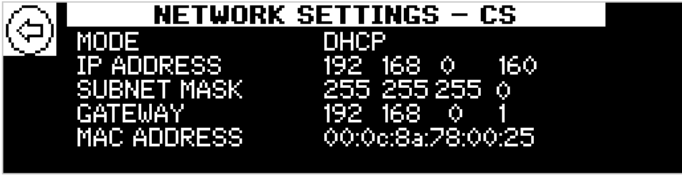



<p>Description</p>	<p>AmpLink displays audio levels (-60 dBu to +24 dBu) for AmpLink output channels 1 - 8.</p>
<p>Available Controls</p>	<p>To return to the MAIN MENU, turn the knob counter-clockwise.</p>


DANTE OUTPUT	
Description	DANTE OUTPUT displays audio levels (-60 dBu to +24 dBu) for each Dante input channel 1-64.
Available Controls	Channels 1-32 appear on the first screen. Turn the knob clockwise to view Channels 33-64. To return to the MAIN MENU, turn the knob counter-clockwise.

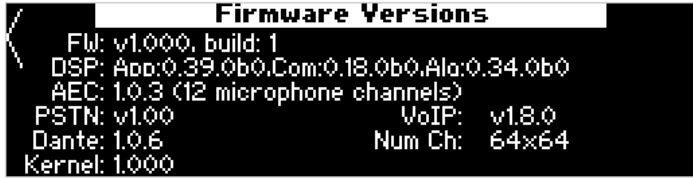
VoIP Phone USB	
Description	<p>VoIP Phone USB displays audio levels (-60 dBu to +24 dBu) for the following:</p> <ul style="list-style-type: none"> • VoIP Input/Output channel 1 • VoIP Input/Output channel 2 • Phone Input/Output • USB Left/Right In • USB Left/Right Out
Available Controls	To return to the MAIN MENU, turn the knob counter-clockwise.

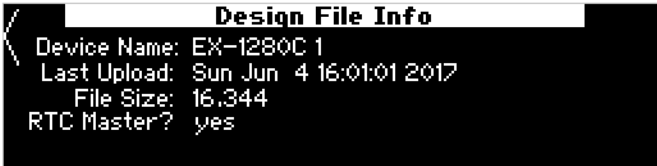
CONFIG	
Description	<p>The CONFIG menu offers seven options:</p> <ul style="list-style-type: none"> • CS NETW SETTINGS • VoIP NETW SETTINGS • DANTE INFO • VERSION INFO • DESIGN FILE INFO • DISPLAY SETTINGS
Available Controls	Turn knob until desired menu item is highlighted. To open that item, press the knob.


CONFIG > CS NETW SETTINGS	
	
Description	<p>CS NETW SETTINGS allows you to display and edit the following ControlSpace network settings:</p> <ul style="list-style-type: none"> • MODE: Select DHCP or STATIC • IP ADDRESS: Display and edit the device's IP address. • SUBNET MASK: Display and edit the subnet mask address. • GATEWAY: Display and edit the gateway address. • MAC ADDRESS: Display the device's MAC address.
Available Controls	<p>To select the MODE, turn the knob until an arrow appears in the row. Press the knob to activate editing mode. Turn the knob to select between DHCP and STATIC. Press the knob to set.</p> <p>To change the IP address, subnet mask, or gateway: Turn the knob until an arrow appears in the appropriate row. Press the knob to activate editing mode. Turn the knob to change the number in the first address block. Press the knob to set the address. Then turn the knob to move to the next address block, and repeat.</p> <p>The MAC address is for display only, and cannot be edited.</p> <p>To return to the CONFIG menu, turn the knob to highlight the arrow in the top-left corner of the screen, and press the knob. You will be prompted to save changes. If you choose No (the default), the changes you made on this screen will not be saved to the device. If you choose YES, the changes will be saved, and the device will automatically reboot. To select an option, turn the knob to highlight your choice, then press the knob to select.</p>

CONFIG > VoIP NETW SETTINGS	
	
Description	<p>VoIP NETW SETTINGS allows you to display and edit the following VoIP network settings:</p> <ul style="list-style-type: none"> • MODE: Select DHCP or STATIC • IP ADDRESS: Display and edit the IP address for the VoIP card inside the EX-1280C. • SUBNET MASK: Display and edit the subnet mask address. • GATEWAY: Display and edit the gateway address. • MAC ADDRESS: Display the MAC address for the VoIP card inside the EX-1280C. • VLAN: Display and edit the optional VLAN number.
Available Controls	<p>To select the MODE, turn the knob until an arrow appears in the row. Press the knob to activate editing mode. Turn the knob to select between DHCP and STATIC. Press the knob to set.</p> <p>To change the IP address, subnet mask, or gateway: Turn the knob until an arrow appears in the appropriate row. Press the knob to activate editing mode. Turn the knob to change the number in the first address block. Press the knob to set the address. Then turn the knob to move to the next address block, and repeat.</p> <p>The MAC address is for display only, and cannot be edited.</p> <p>To return to the CONFIG menu, turn the knob to highlight the arrow in the top-left corner of the screen, and press the knob.</p> <p>You will be prompted to save changes. If you choose No (the default), the changes you made on this screen will not be saved to the device. If you choose YES, the changes will be saved, and the device will automatically reboot. To select an option, turn the knob to highlight your choice, then press the knob to select.</p>

CONFIG > DANTE INFO	
	 <pre> Dante Info IP 192.168.0.53 Fact Model 1.0.6 MAC 00:1d:c1:0e:d6:92 Fact SW 1.0.0 Ch Num 64x64 Fact FW 1.0.0 Build 6 MODE SWITCHED SW 3.9.6 ID EX-1280C FW 4.0.0 Device BKLYN-II-0ed692 </pre>
Description	<p>DANTE INFO displays the following information (correlates to what is displayed in the Dante controller software):</p> <ul style="list-style-type: none"> • IP: Display and edit the IP address for the Dante card inside the EX-1280C. • MAC address: Display the MAC address for the Dante card inside the EX-1280C. • CH Num: Display the number of available Dante channels • MODE: Display current mode. Possibilities are: SWITCHED, LEGACY, REDUNDANT, and ISOLATED. See the ControlSpace Designer help topics for more details on these modes. • ID: Display product model name (EX-1280C) • Device: Display the assigned name of this Dante device. This can be configured using ControlSpace Designer software or the Dante controller. • Fact Model • Fact SW: Display the version number for the Bose software installed on the EX1280-C. • Fact FW: Display the version number for the Bose firmware installed on the EX1280-C. • SW: Display the version number for the Audinate Dante software installed on the EX1280C. • FW: Display the version number for the Audinate Dante firmware installed on the EX1280C.
Available Controls	To return to the MAIN MENU, turn the knob counterclockwise.

CONFIG > VERSION INFO	
	 <pre> Firmware Versions FW: v1.000, build: 1 DSP: App:0.39.0b0,Com:0.18.0b0,Ala:0.34.0b0 AEC: 1.0.3 (12 microphone channels) PSTN: v1.00 VoIP: v1.8.0 Dante: 1.0.6 Num Ch: 64x64 Kernel: 1.000 </pre>
Description	<p>VERSION INFO displays the version number of the installed software and/or firmware for the following components of the EX1280C:</p> <ul style="list-style-type: none"> • FW • DSP • AEC • PSTN • Dante • Kernel • VoIP <p>Num Ch displays the number of available Dante audio channels.</p>
Available Controls	To return to the MAIN MENU, turn the knob counterclockwise.

CONFIG > DESIGN FILE INFO	
	
Description	<p>DESIGN FILE INFO displays the following information about the most recent ControlSpace Designer design file uploaded onto the EX1280-C:</p> <ul style="list-style-type: none"> • Device Name: Display the device name. • Last Upload: Display the most recent design file upload date and time. • File Size: Display the size of the most recently uploaded design file. • RTC Master: Specify whether this device is the real time control master for the system.
Available Controls	To return to the MAIN MENU, turn the knob counterclockwise.

CONFIG > DISPLAY SETTINGS	
	
Description	<p>DISPLAY SETTINGS displays the following information:</p> <ul style="list-style-type: none"> • Display auto-shutoff: Set the time (in minutes) for the front panel display to shut off. • Brightness: Adjust the brightness of the front panel display
Available Controls	<p>Turn the knob to align the arrow with the setting you want to change. Press the knob to activate. Turn the knob to adjust the value, then press the knob again to set the value.</p> <p>To return to the MAIN MENU, turn the knob until the arrow in the top left corner is highlighted, then press the knob.</p>

Maintenance Operations

Firmware and Software Upgrades

ControlSpace Designer software is updated on a periodic basis. Please check our website at pro.Bose.com for new software releases.

For information on how to update the firmware for the EX-1280C, consult the ControlSpace Designer software help system, located inside the software.

Troubleshooting

Problem	What to do
No power	<ul style="list-style-type: none"> • Plug in IEC power cord • Check mains power
Power is on, but no sound	<ul style="list-style-type: none"> • Verify that there is an input signal from the source using ControlSpace Designer software. The audio input metering should be in the green/yellow band. • Verify that there is an output signal. The audio output signal metering should be in the green/yellow band.
Sound is distorted	<ul style="list-style-type: none"> • Using ControlSpace Designer software, verify that the audio input signal indicator blocks are not showing solid red or flashing red. If they are, reduce the input pre-gain setting to where the input is no longer clipping (red). • Using ControlSpace Designer software, verify that the audio output signal indicator blocks are not solid red or flashing red. If they are, and the input indicators are green, use the Designer software to reduce the output gain or any intermediary gain in the signal path. • If the input source signal is clean when it enters the system, and the input and output indicators are green, verify that the loudspeakers are not being overdriven and are not damaged.
No EX-1280C network connectivity from ControlSpace Designer running on PC	<ul style="list-style-type: none"> • Verify that the EX-1280C processor is fully booted. The Power/Status indicator LED should appear solid white. • Verify that the LAN settings on the TCP/IP Ethernet device you are using on the PC are set correctly: <ul style="list-style-type: none"> • If not using a DHCP server, the IP address of the PC should be set manually to an unused IP address (e.g. 192.168.0.10). • The default IP Subnet mask is set to 255.255.255.0. • Check firewall settings on the PC, unblock all ports. • Verify that the proper Host Network Interface Card Name is selected in ControlSpace Designer Hardware Manager. • Verify that there is not another device connected to the network with the same IP address. • Refer to ControlSpace Designer Help for detailed steps to ensure the EX-1280C is on the same network as the PC running ControlSpace Designer.
Power LED remains red after booting	<ul style="list-style-type: none"> • Most often the result of a design file/firmware mismatch. • If necessary, retrieve saved design from the EX-1280C, then send a blank design to the EX-1280C. The LED should change to white. • Re-send the previous design after it has upgraded by importing the design into the latest version of CSD.
No EX-1280C network connectivity	<ul style="list-style-type: none"> • Ensure the EX-1280C is connected to the network using the RJ-45 jack labeled ControlSpace. • Check that the network activity LED built into the ControlSpace RJ-45 jack is illuminated or blinking to confirm an active network connection.
Unexpected EX-1280C IP address of 169.X.X.X or 172.X.X.X.X is shown in Network Settings - CS front panel menu	<ul style="list-style-type: none"> • The EX-1280C will default to these ranges if set to DHCP while no DHCP server is present on the network. Add a DHCP server to the network or change EX-1280C to a static IP address.

Problem	What to do
No AmpLink audio received from EX-1280C connected to an AmpLink-enabled amplifier	<ul style="list-style-type: none">• Ensure shielded CAT-5 network cable is used for AmpLink and set the amplifier to receive AmpLink channels 1-8.
No EX-1280C Dante audio subscriptions or audio	<ul style="list-style-type: none">• Ensure the EX-1280C's Dante IP address is on the same network as the EX-1280C's ControlSpace control IP address. This can be checked on the EX-1280C Config > Dante Info front panel menu (see page 25 for more information). To change the EX-1280C Dante IP, use Audinate's Dante Controller software. Sometimes it can be helpful to change the PC's network settings from static IP to DHCP to view and change the Dante IP address.

Technical Specifications

Integrated DSP	
Signal Processor	32-bit fixed/floating-point DSP 456 MHz/ARM Cortex-A8 600Mhz
Maximum Calculation	3.6 GIPS / 2.7 GFLOPS
Delay	43 s
Audio Latency	1.05 ms (analog in to analog out, without AEC)
A/D and D/A Converters	24-bit
Sample Rate	48 kHz
Analog Audio Inputs	
Input Channels	12 balanced, mic/line level
Connectors, Input	3.81 mm Euroblock, 6-pin
Input Impedance	12 k Ω @ 1 kHz (with or without phantom power active)
Maximum Input Level	+24 dBu
Equivalent Input Noise	-118 dB at 44 dB gain setting
Phantom Power	+48 VDC, 10 mA, selectable per input
Gain Settings	0/14/24/32/44/54/64 dB
Analog Audio Outputs	
Output Channels	8 balanced, line-level
Connectors	3.81 mm Euroblock, 6-pin
Output Impedance	200 Ω
Maximum Output Level	+24 dBu
Audio Performance Specifications	
Frequency Response	20 to 20kHz (+0.3 dB/-0.1 dB)
THD+N	0.002% at +4 dBu (A-weighted/20 Hz - 20 kHz)
Channel Separation (Crosstalk)	< -105 dB at +4 dBu input and output level, 1 kHz
Dynamic Range	> 115 dB, A-weighted 20 Hz - 20 kHz, analog input to analog output
Audio Over IP	
Dante	64x64, primary/secondary
Digital Audio Outputs	
AmpLink	8 ultra-low latency < 21 μ s, 48kHz
Communication Ports	
USB Device	Micro B, stereo in/out
VoIP	RJ-45; 2 lines, 2 instances per line
PSTN	RJ-11; 1 line, Tx/Rx
USB Host	Type A. For future use
Control Inputs	
Inputs (Control)	5 analog or digital inputs, 2 k Ω internal pull-up resistor to 5 V, 3.81 mm Euroblock, 6-pin
Analog Input Voltage Range	0 V to 3.3 V (maximum 5 V)
Digital Input Voltage Range	0 V to 3.3 V (threshold voltage = 1.6 V)

Technical Specifications

Control Outputs	
Outputs (Control)	5 digital outputs, 3.81 mm Euroblock, 6-pin
Output Voltage	High: 8 V (open circuit), 2.5 V @ 10 mA Low: < 1 V @ 100 mA, push-pull
Indicators and Controls	
Display	256x64 OLED with rotary encoder
LED Status Indicators	Power/Status
Audio Signal Indication	On Display
Electrical Specifications	
Mains Voltage	100 VAC - 240 VAC, 50/60 Hz
AC Power Consumption	35 W typical at 40 °C (104 °F) ambient
Mains Connector	IEC 60320-C14 (Inlet)
Power Dissipation	60 W (205 BTU, 52 kcal)
Physical	
Dimensions (H x W x D)	44 mm x 483 mm x 282 mm (1.7" x 19" x 11.1")
Net Weight	3.6 kg (7.3 lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)
Cooling System	2 variable speed fans, side venting
General	
PC Configuration Software	ControlSpace® Designer™ software
Network Control	Ethernet (RJ-45), 1 Gb
RS-232/485 Ports	RS-232 (DTE) and Bose CC-16 (RS-485 master) - 3.81 mm Euroblock, 3-pin
Audio Channel Capacity	166 (20 analog, 8 AmpLink out, 64x64 Dante, 4 VoIP, 4 USB, 2 PSTN)

Limited Warranty

Your product is covered by a limited warranty, Visit pro.bose.com for warranty details.

The warranty information provided with this product does not apply in Australian and New Zealand. See our website at www.bose.com/au/warranty or www.bose.com/nz/warranty for details of the Australian and New Zealand warranty.

Audinate® and Dante® are registered trademarks of Audinate Pty Ltd.

Crestron® is a registered trademark of Crestron Electronics, Inc.

AMX® is a registered trademark of Harmon, International.

Refer to the owner's guide at pro.bose.com for more information about this product, including accessories and replacement parts. To request a printed copy, use the phone numbers provided.

Date of Manufacture: The eighth digit in the serial number indicates the year of manufacture; "7" is 2007 or 2017.

Telecom Compliance

FCC Compliance Statement

For United States Users

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom side of this equipment is a label that contains, among other information, a product identifier in the format US:JUBBR01AEX-1280C. If requested, this number must be provided to the telephone company. The information associated with the services the equipment is to be connected are REN: 0.1A, Jack type: RJ-11C.

The REN is useful to determine the number of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of RENs of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company to determine the maximum REN for your calling area. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:JUBBR01AEX-1280C. The digits represented by 01A are the REN without a decimal point (e.g., 01A is a REN of 0.1A). For earlier products, the REN is separately shown on the label.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Should this equipment cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible they 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 you as soon as possible. You will be informed of your right to file a complaint with the FCC. 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 to give you an opportunity to maintain uninterrupted telephone service.

This product is not intended to be repaired. If you experience trouble with this equipment, please contact:

Name: Bose Corporation
Address: 100 The Mountain Rd., Framingham, MA, 01701 U.S.A.
Telephone: (877) 428-2673.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment Model EX-1280C does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

For Canadian Users

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

The Ringer Equivalence Number (REN) indicates the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices not exceed five.

This Class B digital apparatus complies with Canadian ICES-003.

Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Contact Information

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See website for other countries

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Tel: 886 2 2514 7977

Mexico

Bose de México, S. de R.L. de C.V., Paseo de las Palmas 405-204, Lomas de Chapultepec, 11000 México, D.F.
Tel: 001 800 900 2673



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