

## Compliance information

**- PCI Express card AEX800 -**  
*(FX0 & FXS ports)*

January 2014



# Regulatory – Compliance and Agency Approval

The Digium PCI Express card model **AEX800** complies with or has obtained Regulatory Agency approval at least against the following standards:

- **EMC – Emission** (Class A) FCC Part 15 - 2009  
ICES-003 issue 4  
EN 55022: 2010
- **EMC – Immunity** EN 55024: 2010
- **Safety** IEC 60950-1: 2005 + A1  
UL60950-1- 2011 – 2nd Edition  
CSA C22.2 No. 60950-1-07 – 2nd Edition  
EN 60950-1: 2006 + A11 + A12 + A1  
AS/NZS 60950-1: 2011
- **Telecom - Analog** TBR 21  
FCC Part 68 + TIA-968-B + TIA-968-B-1  
IC CS-03 Issue 9 - Part 1  
AS/CA S002:2011  
AS/CA S003:2010

# Compliance and Regulatory Statements

## 1. EN55022 and CISPR22 – Class A warning

This is a Class A product that may cause radio interference. In this case, the user may be required to take adequate measures.

## 2. FCC Part 15 Statement

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 generate, use 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 are likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

## 3. FCC Part 68 Statement

This equipment, when equipped with the X100M or X400M module, complies with Part 68 of the FCC rules and the requirement adopted by ACTA of the United States.

On the product nameplate of this equipment (located on the rear of the chassis) is a label that contains, among other information, a product identifier in the format US: AAAEQ##TXXXX.

If requested, this number must be provided to the telephone company.

### Connection to the Telephone Line

This equipment cannot be used on the public coin phone service provided by the telephone company. Connection to party line service is subject to state tariffs.

Your telephone company may discontinue your service if your equipment causes harm to the telephone network. They will notify you in advance of disconnection, if possible. During notification, you will be informed of your right to file a complaint to the FCC.

Occasionally, your telephone company may make changes in its facilities, equipment, operation, or procedures that could affect the operation of your equipment. If so, you will be given advance notice of the change to give you an opportunity to maintain uninterrupted service.

The registration number of the system must be provided so that the telephone company can ascertain intended modes of operation and verification of registration ports.

If a need arises in the future, the telephone company will call the user and request the following information for any equipment being connected to the Public Switched Telephone Network:

- *Manufacturer:* Digium Inc.
- *Model Number:* Refer to the nameplate on the chassis
- *Ringer Equivalence Number (REN):* 0.1A
- *Facility Interface Code (FIC):* 02LS2
- *Service Order Code (SOC):* 9.0Y
- *Universal Service Order Code (USOC):* RJ11C

## **The Ringer Equivalence Number (REN)**

The FCC Registration Label, found on the card, includes the REN. This number is a representation of the electrical load that will be applied to your telephone line once the unit is plugged into your wall jack. The telephone line serving your premises will not operate properly if the total ringer load exceeds the capability of the telephone company central office equipment. That is, if too many ringers (or their equivalent) are connected to the line, there may be insufficient energy to ring your telephones or activate other equipment. If the ringer load is excessive, you may also have difficulty dialing telephone numbers.

## **Problems, Repair and Warranty**

Should you experience trouble with this telephone equipment or for repair or warranty information, please contact Digium, Inc. at +1 (256) 428-6000. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect this equipment from the line network until the problem has been corrected.

## **4. Industry Canada Statement**

This equipment does not exceed Class A limits for radio noise emissions for 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.

This product, when equipped with the X100M or X400M module, meets the applicable Industry Canada technical specifications.

The Industry Canada label identifies certified equipment. The certification means that the equipment meets certain telecommunications network protective, operations, and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by a Digium authorized maintenance facility. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

## **The Ringer Equivalence Number (REN)**

The Ringer Equivalence Number assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of Ringer Equivalence Numbers of all the devices does not exceed 5.

## 5. Notice d'Industrie Canada

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. 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.

Le présent matériel, avec des modules X100M ou X400M, est conforme aux spécifications techniques applicables d'Industrie Canada.

L'étiquette d'industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par Digium. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause d'un mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.



L'utilisateur ne doit pas tenter de faire les raccordements lui-même, mais doit avoir recours à un service d'inspection d'installations électriques ou d'un électricien.

### Indice d'équivalence de la sonnerie (IES)

L'indice d'équivalence de la sonnerie assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

## 6. Notice for users in Australia – Emergency Dialing Warning



In the event of a power failure, an AEX800 will not operate when equipped with an X100M or an X400M module.

## 7. EU Directives: RTTE and RoHS Recast



### DECLARATION OF CONFORMITY

We, Digium, declare under our sole responsibility that the PCI Express card:

#### **AEX800**

With telephony modules

- X100M (single FXO), X400M (quad FXO)
- S110M (single FXS), S400M (quad FXS)

With optional Echo Cancellation module VPMOCT032

to which this declaration relates, is in conformity with:

- 1- All applicable essential requirements following the provisions of the European Directive 1999/5/EC.**

The conformity assessment procedure used for this declaration is the Annex II of the Directive. Product compliance has been demonstrated against the following standards:

EN 55022	2010
EN 55024	2010
EN 60950-1	2006 + A11 + A12 + A1

- 2- The European Directive 2011/65/EC (RoHS Recast)**

Product compliance has been demonstrated against the following standard:

EN 50581	2012
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The technical file is kept at: *Digium Inc.*  
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Huntsville, Alabama 35806  
USA

Huntsville, 14 January 2014

  
Jean Galarneau  
Engineering Manager



- DIGIUM vakuuttaa täten että AEX800 tyyppinen laite on direktiivin 1999/5, 2011/65 oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
- Hierbij verklaart DIGIUM dat het toestel AEX800 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5, 2011/65.
- Par la présente DIGIUM déclare que les AEX800 sont conformes aux exigences essentielles et aux autres dispositions pertinentes des Directives 1999/5, 2011/65.
- Härmed intygar DIGIUM att denna AEX800 står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5, 2011/65.
- Undertegnede DIGIUM erklærer herved, at følgende udstyr AEX800 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5, 2011/65.
- Hiermit erklärt DIGIUM, dass sich dieses AEX800 in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5, 2011/65 befindet (BMW).
- ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ DIGIUM ΔΗΛΩΝΕΙ ΟΤΙ ΑΕΧ800 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5, 2011/65.
- Con la presente DIGIUM dichiara che questo AEX800 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5, 2011/65.
- Por medio de la presente DIGIUM declara que el AEX800 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5, 2011/65.
- DIGIUM declara que este AEX800 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5, 2011/65.
- Hawnhekk, DIGIUM, jiddikjara li dan AEX800 jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5, 2011/65.
- Käesolevaga kinnitab DIGIUM seadme AEX800 vastavust direktiivi 1999/5, 2011/65 põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
- Alulírott, DIGIUM nyilatkozom, hogy a AEX800 megfelel a vonatkozó alapvető követelményeknek és az 1999/5, 2011/65 irányelv egyéb előírásainak.
- DIGIUM týmto vyhlasuje, že AEX800 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5, 2011/65.
- DIGIUM tímto prohlašuje, že tento AEX800 je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5, 2011/65.
- Šiuo DIGIUM deklaruoja, kad šis AEX800 atitinka esminius reikalavimus ir kitas 1999/5, 2011/65 Direktyvos nuostatas.
- Ar šo DIGIUM deklarē, ka AEX800 atbilst Direktīvas 1999/5, 2011/65 būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
- DIGIUM izjavlja, da je ta AEX800 skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5, 2011/65.
- Hér með lýsir DIGIUM yfir því að AEX800 er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5, 2011/65.
- Niniejszym DIGIUM oświadcza, że AEX800 jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5, 2011/65.
- DIGIUM erklærer herved at utstyret AEX800 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5, 2011/65.
- Noi DIGIUM declarăm că aparatul AEX800 este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Hotărârii Guvernului nr.88/2003 și Directivei 1999/5, 2011/65.
- DIGIUM декларирам на своя отговорност, че далекосъобщително устройство AEX800 съответства на съществените изисквания по 1999/5, 2011/65.

## Marking

The PCI Express card model AEX800 bears the following CE mark:



## Intent of Use and Network Compatibility

This telecom equipment is intended to be connected to the following telecom service:

- Analog access to PSTN in all the countries listed below

**List of countries:** *Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Republic of Ireland, Italy, Latvia, Lithuania, Luxemburg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK*

## 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 Digium equipment that you bought has required the extraction and use of natural resources for its production. It 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.





## Safety warnings and Precautions

<b>AEX800 with FXS modules S110M or S400M:</b> <i>this module may dissipate a significant amount of energy. Use in a well-ventilated PC.</i>	<b>AEX800 avec des modules FXS S110M ou S400M:</b> <i>ce module peut dissiper une quantité importante d'énergie. Utiliser dans un PC bien ventilé.</i>	<b>AEX800 mit FXS Modulen S110M oder S400M:</b> <i>Dieses Modul kann eine erhebliche Menge an Energie zu zerstreuen. Verwenden Sie in einem gut belüfteten PC.</i>	<b>AEX800 con FXS S110M o S400M módulos:</b> <i>este módulo puede disipar una cantidad significativa de energía. Uso en un PC bien ventilado.</i>
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## Making changes or modifications



Any changes and modifications not expressly approved by Digium will void any compliance and regulatory approval, and will void the user's authority to operate the equipment.