

Statement of Compliance to EU WEEE Directive and RoHS Directive

WEEE DIRECTIVE AND ROHS DIRECTIVE - OVERVIEW

The WEEE and RoHS directives directly affect producers of certain items of electrical and electronic equipment. It is the responsibility of the *producer* or the company placing the **electrical or electronic equipment** (EEE) onto the market to decide if they are covered by the scope of the Directives. The producer is defined as the manufacturer, distributor, or importer of the equipment within the European Union (EU). Both directives list categories of end-user equipment that are covered by or exempt from the directives. Further details are provided later in this document.

DIRECTIVES AT A GLANCE

WEEE

The WEEE (Waste Electrical and Electronic Equipment) directive is environmental legislation designed to reduce the amount of electrical and electronic equipment (WEEE) waste being dumped in landfill sites. It aims to make the producer responsible for any waste and encourage the recycling and re-use of this equipment when it's no longer useful. The WEEE directive defines ten categories of end-user equipment that are covered by the directive and it provides guidelines for recycling targets. This directive became EU law on August 13, 2005.

RoHS

The RoHS directive applies to end-user electrical and electronic equipment and sets the maximum acceptable levels for six substances within the composition of the product – lead, cadmium, mercury, hexavalent chromium, and both polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants. The main issue facing the electronics industry is the use of lead in the manufacture of components and circuit board assemblies. The RoHS directive applies to eight of the ten product categories defined in the WEEE Directive (it does **not** apply to monitoring and control equipment or medical devices). This directive came into force on July 1, 2006.

DIRECTIVE EXEMPTIONS

The WEEE and RoHS directives reference a list of product categories and exemptions to be considered by producers. The following information may help you decide whether your product falls within the scope of the directives.

There are two major types of equipment which fall **outside** the scope of both the WEEE and RoHS directives:

- Fixed installation A combination of several items of equipment, systems, finished products, and/or components assembled and/or erected by an assembler/installer at a given place to operate together in an expected environment to perform a specific task, but not intended to be placed onto the market as a single functional or commercial unit. 1
- Large-scale stationary industrial tool/machine This is an exclusion within product category 6 (Electrical and Electronic Tools). It is defined as a machine or system, consisting of a combination of equipment, systems, or products, each of which is designed to be used in industry only, permanently fixed and installed by professionals at a given place in an industrial machine or in an industrial building to perform a specific task. 2

The WEEE directive excludes these items because it is not practical to identify a single responsible party for disposal and recycling. The RoHS directive excludes them on the grounds of consistency with the WEEE directive.

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In addition, equipment described as monitoring and control equipment (such as industrial control panels and remote monitoring systems) and medical equipment (analyzers, radiotherapy equipment, and laboratory equipment) are categories defined in the WEEE directive which are specifically excluded from the RoHS directive.

Note: Over the next few years, the EU will review the technical feasibility of including these categories within the RoHS directive.

While equipment used for servers, storage/storage array, and network infrastructure equipment for switching, signaling and transmission is covered by the RoHS directive, they may use lead in solder (the limits for the other five substances must still comply). This exemption has been introduced to allow lead in solders for professional, high reliability applications for which viable lead-free alternatives have not been identified. This category is informally referred to as RoHS-5.

Wireless Systems produce RF electronic sub-assemblies (embedded boards and sub-systems) and end-user electronic equipment. These products are integrated into end-user equipment for a variety of applications or installed with other equipment. Although it is the responsibility of the **equipment producer** to comply with the RoHS directive, Wireless Systems supports customers by providing RoHS-compliant options for products that comply with EU regulations for RF devices operating in those countries. In some cases, Wireless Systems is limited by the availability of certain components.

Wireless Systems Compliance to RoHS Directive

Products currently compliant as of the date of this statement include all variations of the following base part numbers (for example, AC4424 covers AC4424-10,-100,-200,.....etc):

•	AC4423	
•	LT4424	
•	CL4424	
•	CL2510	
•	CM4424	
•	AC3124I	
•	LT3124I	

AC4486

AC4868

AC4x90

AC4424

AC4790

Z100S1xxx

Z040S1xxx

PRM110

ZB2430 (date code

0708 and above

PRM113
PRM114
PRM120
PRM121
PRM122
PRM123
PRM130
PRM210
PRM211
PRM220
PRM221
BL600-Sx

BT730-Sx

BT740-Sx

BT800

PRM111

PRM112

 BT820 BTM402 BTM403 BTM404 BISMS02BI BTM410 BTM411 BTM420 BTM421 BTM430 BTM431 BTM440 BTM441 BTM442 BTM443 BTM461

BTM510

BTM520
BTM521
TRBLU23
TRBLU-024
BRBLU03
BISPC01BI
WISMC01BI
WISMC03BI
CL4490
DVK-RM024
EVR-RM024
EVU-RM024
RM024
DAK024
BISPC01PM

■ BTM511

Note: Wireless Systems will transition to lead-free solder on other products when all components have lead-free availability or by the end of 2008. Exceptions to this will be on a customer request basis in certain market areas only.

WEEE and RoHS Compliance

Wireless Systems Compliance to the WEEE Directive:

Wireless Systems produces RF electronic sub-assemblies and end-user equipment. Most of these electronic sub-assemblies are integrated into end-user equipment by our customers or by someone further along the supply chain. Some products manufactured and sold by Wireless Systems are classified as end-user equipment such as the ConnexLink and ConnexModem products.

Wireless Systems equipment is typically used in one of the following system installations:

- As part of a fixed installation.
- Equipment used for servers, storage/storage array and network infrastructure equipment for switching, signaling and transmission.

Based on these defined uses, Wireless Systems products are not covered by the WEEE Directive. If enduse is <u>not</u> as defined above, please ensure the product desired is included within this statements RoHS compliant product list. Wireless Systems will continue the conversion of existing products to RoHS compliance and to assist our customers, Wireless Systems will accept the return of any Wireless Systems equipment and process this using an approved recycling agent. Wireless Systems may charge a fee for this service.

REFERENCES

[1] Frequently Asked Questions on Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical & Electronic Equipment (RoHS) and Directive 2002/96/EC on Waste and Electronic Equipment (WEEE). European Commission: Directorate General, May 2005. Page 7.

[2] Ibid. Page 6.