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September 2023

Subject: Intel Manufactured FPGA Products EPEAT

Dear Customer:

Intel manufactures a wide range of products, from microprocessors, through embedded controllers, up to complete OEM systems. A large number of subassemblies and components are purchased from other manufacturers. Intel goes to great lengths to make sure all our products meet applicable legal requirements, and we continually monitor changes in those requirements.

In response to recent customer inquiries on the IEEE 1680.1 (2018) and 1680.1a (2020) EPEAT design standards, the attached tables provide information relating to **Intel FPGA Arria10 and Cyclone10 products** conformance to relevant sections of the standards. Intel is providing this information for the purpose of aiding customers in their assessment of EPEAT certification level for PC products.

Specific product material content data can be obtained from Intel's Material Declaration Data Sheets (MDDS) with the industry standard format IEC 64724 substance reporting schema. The product declarations are available on the Intel web site at https://www.intel.com/content/www/us/en/collections/content-type/mdds.html

The information provided regarding the material content of our products is true and correct to the best of our knowledge and Intel has systems and due diligence processes in place to determine the content of our products to ensure compliance with all applicable laws and regulations. This information, in connection with our products, is subject to and limited by Intel's standard terms and conditions for sale of such products.[1]

If you have any questions or requests for additional information concerning this letter, please contact your Intel representative or visit support.intel.com.

Khor Phaik Hoon

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Product Ecology Engineer

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Attachments – Intel IEEE 1680.1 (2018) and 1680.1a (2020) EPEAT FPGA Products Conformance Declaration, Pages 2 to 5

Intel IEEE 1680.1 (2018) and 1680.1a (2020) EPEAT FPGA Products Conformance Declaration

Product Information
Intel Arria10 FPGA
Intel Cyclone10 FPGA

Supplier Information			
Company Name	Intel Corporation	Contact Title	**Phaik Hoon, Khor**
Company Unique ID	047897855	Contact Phone	1-800-628-8686
Unique ID Authority	Dun and Bradstreet		
Response Date	September , 2023		

The following tables are filled out using the following responses:

Response	Directions
Yes	Indicates that the manufacturer or manufacturer's product conforms with the requirements of the criterion
No	Indicates that the manufacturer or manufacturer's product do not conform with the requirements of the criterion
NA	Indicates that the requirements of the criterion are not applicable to the manufacturer or the manufacturer's products. When NA is claimed the basis for this decision is documented in the Comments column.

Note: Only the titles of criteria are shown in the tables below. Please refer to standard IEEE 1680.1-2018 and 1680.1a-2020 for full criteria details and requirements.

4.1 Substance Management		
Criterion	Response	Comments
4.1.1.1 Required—Conformance with European Union ROHS Directive substance restrictions	Yes	Material Declarations Data Sheets conforming with IEC 62474 are provided through the Intel MDDS website.
4.1.2.1 Optional—Restrictions of the use of cadmium	Yes	These products do not use any exempted cadmium applications.
4.1.3.1 Required—Elimination of intentionally added mercury in light sources	NA	Not applicable for IC product
4.1.4.1 Optional—Restriction of the use of beryllium	Yes	Homogenous materials in the specified products do not contain beryllium above 1000 ppm.
4.1.5.1 Required—Reduction of bromine and chlorine content in plastic parts > 25 grams	NA	These products do not contain plastic parts >25 g excluding printed circuit boards, cables and wiring, fans, and electronic components. Material Declarations Data Sheets conforming With IEC 62474 are provided through the Intel MDDS website.
4.1.5.2 Optional—Further reduction of bromine and chlorine content of plastic materials	Yes	Any plastic materials in the products exceeding 0.5 g do not contain > 1000 ppm chlorine or bromine at the homogeneous level. Material Declarations Data Sheets conforming with IEC 62474 are provided throught Intel MDDS website.
4.1.6.1 Optional—Avoidance or elimination of substances on EU REACH Annex XIV (authorization list)	NA	There are no EU REACH Annex XIV substances found above threshold in these products.
4.1.6.2 Optional—Reduction of substances on the EU REACH Candidate List of SVHCs	Yes	There are no EU REACH Candidate List of SVHCs found above threshold in these products, except for some products with BPA CAS# 80-05-7 > 0.1 wt% in Article. Material Declarations Data Sheets conforming with IEC 62474.
4.1.7.1 Required—Compliance with provisions of EU Battery Directive	NA	Not applicable for IC product
4.1.8.1 Optional—Chemical assessment and selection	NA	Not applicable for IC product
4.1.9.1 Optional—IEC 62474 declarable substances	Yes	Intel has a process to obtain and maintain data on IEC 62474 declarable substances.
4.1.9.2 Optional—Requesting substance inventory	NA	Final manufacturer requirement
4.1.9.3 Optional—Acquiring substance inventory	No	Intel does not provide substance inventory for these products
4.1.10.1 Optional—Reduce fluorinated gas emissions from flat panel display manufacturing	NA	Not applicable for IC product
4.1.10.2 Optional—Reduce fluorinated greenhouse emissions from semiconductor production	Yes	Intel will refer to outsource assembly if further information is required

Sections 4.2 – 4.8 are not applicable as they are a final manufacturer requirement.

4.9: Corporate environmental performance		
Criterion	Response	Comments
4.9.1.1 Required—Third party certified environmental management system (EMS) for design and manufacturing organizations	Yes	Intel will refer to outsource assembly if further information is required
4.9.1.2 Optional—Third party certified environmental management system (EMS) for supplier manufacturing facilities	Yes	Intel will refer to outsource assembly if further information is required
4.9.2.1 Required—Corporate environmental performance reporting by manufacturer	Yes	Intel will refer to outsource assembly if further information is required
4.9.2.2 Optional—Corporate environmental performance reporting by suppliers	Yes	Intel will refer to outsource assembly if further information is required
4.9.3.1 Optional—Energy management system/energy performance improvement –manufacturers	Yes	Final manufacturer requirement
4.9.3.2 Optional—Energy management system/energy performance improvement for suppliers	Yes	Intel will refer to outsource assembly if further information is required
4.9.4.1 Optional—Renewable energy use by manufacturer	Yes	Final manufacturer requirement
4.9.4.2 Optional—Renewable energy use by manufacturer suppliers	Yes	Intel will refer to outsource assembly if further information is required

4.10: Corporate social responsibility		
Criterion	Response	Comments
4.10.1.1 Optional—Socially responsible supplier manufacturing: Labor	Yes	Intel will refer to outsource assembly if further information is required
4.10.1.2 Optional—Socially responsible manufacturing: OHS	Yes	Intel will refer to outsource assembly if further information is required
4.10.2.1 Required—Public Disclosure regarding conflict minerals in products	Yes	Intel will refer to outsource assembly if further information is required
4.10.2.2 Optional—Participation in an in-region program that advances responsible sourcing of conflict minerals	Yes	Final manufacturer requirement
4.10.2.3 Optional—Smelter and refiner participation in OECD-aligned third-party mechanisms	Yes	Final manufacturer requirement