

P1823

Submitter Email: bob@scsi.com
Type of Project: New IEEE Standard
PAR Request Date: 20-Apr-2010
PAR Approval Date: 17-Jun-2010
PAR Expiration Date: 31-Dec-2014
Status: PAR for a New IEEE Standard

1.1 Project Number: P1823
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for a Universal Power Adapter for Mobile Devices

3.1 Working Group: Universal Power Adapter for Mobile Devices Working Group (C/MS/UPAMD)

Contact Information for Working Group Chair

None

Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Microprocessor Standards Committee (C/MS)

Contact Information for Sponsor Chair

Name: James Davis

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2013

4.3 Projected Completion Date for Submittal to RevCom: 08/2014

5.1 Approximate number of people expected to be actively involved in the development of this project: 50

5.2 Scope: The Universal Power Adapter for Mobile Devices (UPAMD) standard defines a power delivery connection between a power adapter and a power using device in the 10 Watt to 130 Watt range. A communications link between the power adapter and the mobile power using device is also defined. The communications may be used to coordinate the power delivery and provide identification between the power adapter and the power using device. While intended for portable computing and entertainment devices, this standard may also be used with other mobile devices in use around the office, home or vehicle.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: The UPAMD standard creates a common interconnect for power delivery in the 10W to 130W power range to portable and fixed devices. This standard supports more universal use and reuse of power adapters replacing brand specific and model specific power adapters. The UPAMD adapter system may be usable in portable computing and entertainment systems, security, household and office equipment within the power range. Universality and reuse are among the primary driving factors. Communications may support the adaption of the powered device performance to the power available.

5.5 Need for the Project: Rational for this project is to greatly reduce the electronic waste caused by the inability to reuse a power adapter with changing mobile devices. Current design practice is to design a power adapter system for each mobile device, laptop, netbook, or other portable systems. Optimization for each device design specifies a different adapter is designed to best fit that system power need.

Most portable systems are being served by more than one power adapter. The inability to reuse existing power adapters with new devices leads to disposal problem of 100s of millions power adapters. Laptops, netbooks, notebooks, and similarly powered devices will reach a shipment levels well over 200 million this year with multiple adapters for each. This Universal Power Adapter for Mobile Devices will also help reduce user costs for power adapters.

Adoption of a single standard will encourage better, more efficient, design of each adapter. With a known adapter standard, each portable device design can optimize for the standard. This common adapter can also promote portable power ports being available for public use in hotels and conference centers and other facilities.

5.6 Stakeholders for the Standard: Portable equipment vendors with equipment within the proposed power range. This include portable computing equipment such as laptop, netbook, notebook computers, entertainment and gaming system. Small portable equipment used around the home, office, and vehicles will also be effected.
Power adapter vendors will also be effected.
Electronic equipment disposal systems will be less used.
It will generally positively effect most small system users.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No
6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: Yes
If Yes please explain: A similar proposal has been submitted to IEC TC100 from the Korean National Committee (100/1699/NP).

and answer the following

Sponsor Organization: IEC

Project/Standard Number:

Project/Standard Date:

Project/Standard Title:

7.2 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: Yes

Organization: ISO/IEC/JCT1

Technical Committee Name: TBD

Technical Committee Number: TBD

Contact Name: TBD

Phone:

Email:

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation):