

Universal Power Adaptor for Mobile Devices

UPAMD / P1823

Call for participation

The Microprocessor Standards Committee, of the IEEE Computer Society, invites your participation in this standardization effort to solve the large industry wide problem with power adapters for mobile computing and entertainment devices.

The goal of this project is to greatly reduce the electronic waste caused by the inability to reuse a power adapter with changing devices. Acquisition cost of new mobile devices could also be lowered by 10-15% with the reuse of already owned power adapters. This waste of resources, money and materials, has existed for too long. This project focuses on a generic, reusable, power interface designed for reuse across brands, models, and years.

Laptops, netbooks, notebooks, and similarly powered devices will reach a shipment levels well over 200 million this year with a larger number of power adapters.

The Universal Power Adapter for Mobile Devices (UPAMD) defines a power delivery, and communication, connection between a power adapter and a power using device in the 10 Watt to 130 Watt range. Communications are 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 services other mobile devices in use around the office, home or vehicle.

Stakeholders for the standard include:

- Portable equipment vendors of laptop, netbook, and notebook computers, entertainment and gaming system and other small portable equipment used around the home, office, and vehicles.
- Users, personal, commercial, government, and military, of portable equipment.
- Land fill operators and recycling efforts
- Power adapter vendors will also be affected.

Currently participation and support is from the mobile device manufacturers, equipment designers and adapter manufacturers representing >80% of the world-wide production capacity. Representatives from the world wide community of users, vendors, component suppliers, academia and government have joined the effort to create the common power interface for DC power in the 10-130W power range.

Efforts of this committee will concentrate on defining the common connector, power specification, and communications protocol.

To participate in, or follow, this effort please join the reflector by sending an simple email to listserv@ieee.org with the only text being "subscribe upamd <your-First-name your-Last-name>" for example 'subscribe upamd <Fred Flintstone>'. No subject line or signature – simple 1 line email only.

We solicit the participation of those that are effected by, and beneficiaries of, this much needed standard.

For additional information, please contact Bob Davis, bobd@scsi.com.