**Universal Power Adapter for Mobile Devices (UPAMD) Study Group**
**Microprocessor Standards Committee**

Tuesday 22 June, 2010 at 5:00PM PDT(0000GMT)
Teleconference ONLY
Start Time: 22 June 5:00 p.m. PDT End Time: 6:00 p.m. PDT UTC-7
Start Time: 22 June 8:00 p.m. EDT End Time: 9:00 p.m. EDT UTC-4
Start Time: 23 June 8:00 a.m. Taiwan End Time: 9:00 a.m. UTC+7?
Start Time: 23 June 9:00 a.m. Japan End Time: 10:00 a.m. UTC+8?
Dial-in Number: (866) 349-5441: International (706) 643-0747
Participant Access Code: 4088571273

**Agenda**

Call to Order UPAMD Study Group meeting - Bob Davis 0000Z 23June2010

I. Introductions
II. Approval of Agenda
III. IEEE Patent slides presented.
    a. *standards.**ieee**.org/board/pat/pat-slideset.ppt*
    b. http://standards.ieee.org/guides/bylaws/sect6-7.html#7
IV. Review of the PAR changes at NesCom.
V. Goals discussion to meet the Purpose for the project. We need to select the goals and then meet them to know that we are DONE.
    a. General Goals
        i. Life expectancy of 10 years
        ii. Mobile Device must be able to charge with communications for safety.
        iii. Capable of continuous growth of communications to support growth of UPAMD.
        iv. First adapter must work with last device and last adapter must work with first device, possibly with reduced capability.
        v. Consider future design options with smaller profiles, etc. over the life of the standard.
        vi. Consider the potential changes in battery storage technology over the life of the standards.
        vii. Multiple battery technologies currently used and need to be considered.
        viii. Should UPAMD consider Adapter supply side issues (input voltage/frequency safety standards, country specific issues?)
        ix. Other? Please comment!
    b. Connector Goals
        i. Easy disconnect to prevent tripping – safety issue – What disconnect force as a function of angle?
        ii. Blind mate friendly it possible – think of mating adapters and connection alignment by feel
        iii. Capable of 3A (assuming 45V) or 7A (assuming 19-20V)
        iv. Compatible with new and lower profile devices – 10-15mm or less? other shapes and possibly flat surface connect
        v. Magnetic or other low retention force attachment?
        vi. Hopefully 1 ground + 1 power connection with communication AC coupled on the powerEthically pleasing
        vii. No shock hazard, even if dropped in water.
        viii. Other? Please comment!
    c. Communications Goals
        i. Use existing standards if possible.
        ii. Consider working with USB on version to AC couple to power lead.
        iii. Other communication schema?
        iv. Others? Please Comment!

v. Communications messages needed
    a. “Any adapter present?”
    b. “Who are you?”
    c. “I am and my capability is”
    d. “Supply power”
    e. “Cease power supply”

d. Power Goals
    i. One connector fits all power needs
    ii. Power well regulated or unregulated input(Bulk power -5/+15%?)
    iii. Filtering requirements
    iv. Choice of voltage and current. 3A at 45v, 7A at 20V
    v. Smart interconnect. No power enabled without communications to adapter.
    vi. Other? Please comment!

VI. Other concerns for group
VII. Next meeting 6/7 July 2010.
VIII. Date for a Face – Face meeting in the late July, early August time frame in SFBay area. Looking for hosts for meeting.
IX. Next meeting will cover Policy and Procedure adoption and selection of officers
X. Adjournment.

Please send any changes or additions to Bob Davs bobd@scsi.com.