Universal Power Adapter for Mobile Devices
IEEE P1823 UPAMD
Communications Subcommittee

Start Time:
16 November 7:00 a.m. PST UTC-8 (1500GMT/Zulu)

In attendance: Bob Davis, Paul Penepinto, Ignatius Lee, Edgar Brown (Chair).
Reflector participation: Piotr Karocki
Note: No Quorum achieved

Meeting Notes
Call to Order, UPAMD Communications Subcommittee meeting - Edgar Brown 1500Z 16 November 2010

I. Approval of Agenda
II. Approval of Minutes from 2 November 2010 meeting
IV. Message classes
Power request (combined with priority)
ACK and NACK management (part of which can be handled by the hardware)
Data request: "please send message X"
Link information?
Hub management?
A. Link management (e.g., protocol version, link negotiation, error control, heartbeat)
B. Information (e.g., priority, class?)
C. Power management/negotiation (e.g, on/off/standby, required power, available power)
D. Identification (e.g., vendor, EUI, serial number)
E. Data transfer?
V. Request for proposals on physical layer definitions
A. Needed information?
B. Proposals:
   1. CAN bus family (ISO 11898, ISO 11992, ISO 17356, EN 50325-xx, etc.)
      The NXP Cortex-M0 (low-end ARM core microcontroller) now has CAN protocol and transceivers built into the device. These lower-end microcontrollers (65¢/qtty) are being positioned for tasks such as automotive tail-lamp control. (Bob Boys, a CAN industry expert will help on informing the use of CAN for this application.)
      CAN documentation is available in the private section of the UPAMD web site. As with similar documentation in the site, these have been provided to the IEEE for this standard development process only please do not distribute them for other purposes than the elaboration of the UPAMD standard.
   2. Other?
VI. Minimum required communications
   The need for communications has been a source of multiple discussions. At the minimum level, why require communications at all? Some of the requirements of the standard might not be satisfiable otherwise. Namely: Safe power unless there is
assurance of a valid device on the other side of the cable. Long lifetime of devices and adapters (analog circuitry might not be precise enough, or reliable enough to guarantee reliability).

A. For adapter/power source
B. For device/power sink

VII. New Business
VIII. Next meeting: 30 Nov. 2010 at the 5:00PM PST (0100Z) time slot.
IX. Remaining meetings in 2010:
   Tuesday Dec. 14 @ 7am Pacific
   After holiday break, meetings will restart on Jan 11 @ 7am Pacific.
X. Adjournment.

Adjourned 1625Z (Bob)

As a reminder: if you are not able to attend the phone/online meeting, your participation by e-mail regarding this meeting agenda can be used to keep your voting status.

IEEE P1823 UPAMD website.

Please send any changes or additions to Edgar Brown ebrown@axionbio.com.