SNIA
SFF TWG
Technology Affiliate

New Project Proposal: SFF-TA-1002

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New Project Proposal: SFF-TA-1002 R1.5

- Purpose of this change is to add in the proposed changes per OCP NIC 3.0 (Standardized label locations, power excursion beyond 1.1A support) and fix an errata with the iRL weighting function.
- Editor(s): Anthony Constantine
- Supporters
  1. Amphenol
  2. Intel
  3. Micron

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- Changes:
  - Labeling areas defined for different connector Types
  - Excursion allowance for current past 1.1A for short term current spikes
    - Fallback if we do not have a test strategy for current spikes or result does not meet OCP NIC's needs is higher static current through power pin changes (e.g., SFF-TA-1037).
  - iRL Weighting function errata
  - Opportunistic editorial changes (e.g., per GOV-TA-0004)
- IP Declaration (if applicable):
  - No known new IP with these changes
- General timeline for project completion
  - Draft and review ballot in February
  - Approval ballot sometime in the spring.

OCP NIC 3.0 Requests

SFF-TA-1002 Connectors - Call to Action

Question to Connector vendors:

- How do you distinguish between Type 1 and Type 2 connectors?
- Is the part number with “T1” and “T2”? or similar?
- Are there physical markings on the connector body?

- Is there test data to support power excursion limits similar to PCI-SIG CEM 6 Table 4-5?
- Can we work with SNIA/SFF-TA-1002 on this?

- SNIA/SFF-TA-1002 TWG to confirm 1.1 A/pin limit. → confirmed.

- OCP NIC spec will be updated to incorporate any changes.

Change to be made to add Label locations indicating “T1” or “T2”

Change to be made to add excursion limits similar to CEM

iRL Weighting Function Errata

In Rev 1.5 spec (Equation 6-1 Note 3)

$$\text{Weighting Function } W(fi) = sinc^2\left(\frac{f_i}{f_b}\right)\frac{1}{1+\left(\frac{f_i}{f_t}\right)^4 * \left(\frac{f_i}{f_r}\right)^8}$$

Proposed Change

$$\text{Weighting Function } W(fi) = sinc^2\left(\frac{f_i}{f_b}\right)\left(\frac{1}{1+\left(\frac{f_i}{f_t}\right)^4}\right)\left(\frac{1}{1+\left(\frac{f_i}{f_r}\right)^8}\right)$$

Thank You

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SNIA SFF TA URL: https://www.snia.org/sff

