SFF TA TWG

2023 Review and 2024 Plans

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(SFF TA TWG Co-chairs)

SFF TA TWG 2023 Accomplishments

- SFF TA TWG develops technical specifications for storage media, storage networks, and pluggable solutions that complement existing industry standards work and encompass cables and connectors, form factor sizes and housing dimensions, management interfaces, transceiver interfaces, electrical interfaces and related technologies. These specifications enable technology vendors to produce compatible, multi-sourced products and solutions.

- Published or revised/updated 13 specifications:
  - SFF-TA-1033: Internal High-Speed Cable / Modular Connector System
  - SFF-TA-1031: SFP2 Cage, Connector, & Module Specification
  - SFF-TA-1027: QSFP2 Connector, Cage, & Module Specification
  - SFF-TA-1020: Cables and Connector Variants Based on SFF-TA-1002
  - SFF-TA-1016: Internal Unshielded High Speed Connector System
  - SFF-TA-1009: Enterprise and Datacenter Standard Form Factor Pin and Signal Specification (EDSFF)
  - SFF-TA-1008: Enterprise and Datacenter Standard Form Factor (E3)
  - SFF-TA-1002: Protocol Agnostic Multi-Lane High Speed Connector
  - SFF-8690: Tunable SFP+ Memory Map for ITU Frequencies
  - SFF-8636: Management Interface for 4-lane Modules and Cables
  - SFF-8614: Mini Multilane 4/8X Shielded Cage/Connector (HDsh)
  - SFF-8612: MiniLink 4/8X Shielded Connector
  - SFF-8024: SFF Module Management Reference Code Tables

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SFF TA TWG Work Items: 18 specifications in process

- SFF-TA-1037: Connectors For Pluggable Multi-Purpose Module
- SFF-TA-1036: Cable Optimized Boot Peripheral Connector
- SFF-TA-1035: Next Gen High Speed Cable Connector System
- SFF-TA-1034: Pluggable Multi-Purpose Module
- SFF-TA-1032: Multi-lane External High Speed Cable System
- SFF-TA-1029: Cabled QSFP Cage & Connector
- SFF-TA-1027: QSFP2 Connector, Cage, & Module Specification
- SFF-TA-1026: Storage System High Speed Cable Interconnect
- SFF-TA-1024: Test Procedure for SFF-TA-1016 Mated Cable Assembly
- SFF-TA-1016: Internal Unshielded High Speed Connector System
- SFF-TA-1009: Enterprise and Datacenter Standard Form Factor Pin and Signal Specification (EDSFF)
- SFF-TA-1002: Protocol Agnostic Multi-Lane High Speed Connector
- SFF-8690: Tunable SFP+ Memory Map for ITU Frequencies
- SFF-8679: QSFP+ 4X Hardware and Electrical Specification
- SFF-8665: QSFP+ 28 Gb/s 4X Pluggable Transceiver Solution (QSFP28)
- SFF-8613: Mini Multilane 4/8X Unshielded Connector (HDun)
- SFF-8472: Management Interface for SFP+
- SFF-8419: SFP+ Power and Low Speed Interface

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External collaboration

- INCITS
- OIF
- OCP
- JEDEC
- PCI-SIG

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SFF TA TWG Membership as of 1/1/2024 (76 Members):

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SFF TA TWG Participation

- Our members include participants involved in ASICs/CPUs, Data centers, interconnects, networking, research, server systems, storage devices, test equipment, and transceivers.

- Benefits:
  - Participation into development of SFF specifications, information documents, and reference guides
  - Ability to open new projects
  - Access to all presentations, all drafts, prior publications, and supplemental material relevant to all SFF projects
  - One of the lowest membership fees around ($1,200/year)

- Resources:
  - How to Join: https://www.snia.org/sff/join
  - Public Site: https://www.snia.org/sff
  - Specifications: https://www.snia.org/sff/specifications
  - Questions about membership? Please send mail to membership@snia.org
  - Additional questions? Please send mail to sff_ta_twgchair@snia.org

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