

New Project Request: QSFP for 112G Operation as Proposed by QSFP-DD MSA

- Two parts:
 - Document 1: Define QSFP modules, connectors and cages to support 112G applications. The technical information will be based on work done and sent to SFF by the QSFP-DD MSA.
 - Document 2: QSFP112 Electrical Specification and Management Interface Timing.
- The method of incorporating the above information and the naming of the documents will be left up to SFF.

SFF-TA-1027

QSFP2.0 Connector/ Cage/
Module Specification

Points to SFF-TA-1028

Does not include any
references to data rate

SFF-TA-1028

QSFP 112G Electrical
Specification

Points to SFF-TA-1027 &
CMIS (OIF)

Includes information
necessary to run QSFP at 112 G

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- SFF Supporters:

1. Amphenol
2. Molex
3. TE
4. FIT
5. II-VI
6. Samtec
7. AOI
8. CZT
9. Eoptolink
10. NVIDIA
11. Juniper
12. Lotes Ltd.

- Other Supporters:

1. Spirent
2. Senko
3. Celestica
4. Maxlinear

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- Liaison with QSFP-DD MSA as documents are released.
- IP Declarations:
 - See QSFP-DD MSA website <http://www.qsfp-dd.com/ipr-statements/>
 - NOTE: The document will undergo an IP disclosure period prior to publication per the SNIA SFF Process Guide

Part 1:

QSFP2.0 Connector/ Cage/ Module Specification

New Project Proposal

SFF-TA-1027: QSFP2.0 Connector/ Cage/ Module Specification

- Define QSFP modules, connectors and cages to support 112G applications and beyond. The technical information will be based on work done and sent to SFF by the QSFP-DD MSA.
 - The intention is to have a speed independent mechanical document (physical definitions) that has the opportunity to be utilized for future generations.
 - Additional documents referencing speed will point to the definition within the mechanical specification.
 - Type 1 module, Connectors and cages for 1x1 and 2x1 variations as defined in QSFP-DD/QSFP-DD800/QSFP112 Hardware Specification Revision 6.01
 - The QSFP-DD MSA suggests adding definitions for Type 2, 2A, and 2B modules where the QSFP-DD module is the reference.
- Editors: Amphenol (Michael Scholeno/ Paul Coddington), Molex (Alex Haser)

New Project Proposal

SFF-TA-1027: QSFP2.0 Connector/ Cage/ Module Specification

- The proposal is to create a single document that includes the physical characteristics of QSFP112 modules, connectors and cages:
 - QSFP-DD MSA Rev 6.01 Chapter 9 definitions to be included.
 - Module definitions
 - Updated paddle card definitions including pad width and length
 - Type 1, 2, 2A and 2B Modules (thermally enhanced)
 - Surface Roughness and Flatness definitions, label locations
 - Connector and Cage definitions (multiple versions)
 - 1x1 SMT including normative footprints
 - 2x1 SMT including normative footprints
 - Performance Requirements (EIA-364-1000)

Part 2:

QSFP112 Electrical Specification

New Project Proposal

SFF-TA-1028: QSFP112 Electrical Specification

- Document 2: QSFP112 Electrical Specification and Management Interface Timing.
 - The technical information will be based on work done and sent to SFF by the QSFP-DD MSA.
- Editor: II-VI (Vera Koleva) *Looking for Co-Editor*

New Project Proposal

SFF-TA-1028: QSFP112 Electrical Specification

- The second part of the proposal is a document that identifies describes the details that identifies QSFP112 and points to the above mechanical document for the desired geometry. (Work done by transceivers Group)
 - QSFP-DD MSA Rev 6.01 Chapter 5
 - Pad Function Definitions
 - Management Interface
 - Power Classes