

SFF specifications are available at <http://www.snia.org/sff/specifications>  
or <ftp://ftp.seagate.com/sff>

**This specification was developed by the SFF Committee prior to it becoming the SFF TA (Technology Affiliate) TWG (Technical Working Group) of SNIA (Storage Networking Industry Association).**

The information below should be used instead of the equivalent herein.

POINTS OF CONTACT:

Chairman SFF TA TWG  
Email: [SFF-Chair@snia.org](mailto:SFF-Chair@snia.org)

If you are interested in participating in the activities of the SFF TWG, the membership application can be found at:

<http://www.snia.org/sff/join>

The complete list of SFF Specifications which have been completed or are currently being worked on can be found at:

<http://www.snia.org/sff/specifications/SFF-8000.TXT>

The operations which complement the SNIA's TWG Policies & Procedures to guide the SFF TWG can be found at:

<http://www.snia.org/sff/specifications/SFF-8032.PDF>

Suggestions for improvement of this specification will be welcome, they should be submitted to:

<http://www.snia.org/feedback>

SFF Committee documentation may be purchased in hard copy or electronic form  
SFF specifications are available at <ftp://ftp.seagate.com/sff>

**SFF Committee**

INF-8074i Specification for

**SFP (Small Formfactor Pluggable) Transceiver**

Rev 1.0      May 12, 2001

Secretariat: SFF Committee

Abstract: This specification describes the SFP (Small Formfactor Pluggable) Transceivers developed by the MSA (Multiple Source Agreement) group. The following companies participated in the MSA.

Agilent Technologies	IBM
Blaze Network Products	Lucent Technologies
E2O Communications	Molex
ExceLight Communications	Optical Communication Products
Finisar	Picolight
Fujikura Technology America	Stratos Lightwave
Hitachi Cable	Tyco Electronics
Infineon Technologies	

This Information Specification was not developed or endorsed by the SFF Committee and was submitted for distribution on the basis that it is of interest to industry.

The copyright on the contents remains with the contributor.

Contributors are not required to abide by the SFF patent policy. Readers are advised of the possibility that there may be patent issues associated with an implementation which relies upon the contents of an 'i' specification.

SFF accepts no responsibility for the validity of the contents.

**POINTS OF CONTACT:**

Schelto van Doorn  
Technical Editor  
Intel/nSerial  
3101 Jay St #110  
Santa Clara CA 95054

408-496-3426  
408-486-9783Fx  
[schelto.vandoorn@intel.com](mailto:schelto.vandoorn@intel.com)

I. Dal Allan  
Chairman SFF Committee  
14426 Black Walnut Court  
Saratoga  
CA 95070

408-867-6630  
408-867-2115Fx  
[endlcom@acm.org](mailto:endlcom@acm.org)

EXPRESSION OF SUPPORT BY MANUFACTURERS

The following member companies of the SFF Committee voted in favor of this industry specification.

EMC  
ENDL  
FCI/Berg  
Hitachi Cable  
Picolight  
Toshiba America  
Unisys

The following member companies of the SFF Committee voted to abstain on this industry specification.

Fujitsu CPA  
IBM  
Seagate  
Tyco AMP

If you are not a member of the SFF Committee, but you are interested in participating, the following principles have been reprinted here for your information.

**PRINCIPLES OF THE SFF COMMITTEE**

The SFF Committee is an ad hoc group formed to address storage industry needs in a prompt manner. When formed in 1990, the original goals were limited to defining de facto mechanical envelopes within which disk drives can be developed to fit compact computer and other small products.

Adopting a common industry size simplifies the integration of small drives (2 1/2" or less) into such systems. Board-board connectors carrying power and signals, and their position relative to the envelope are critical parameters in a product that has no cables to provide packaging leeway for the integrator.

In November 1992, the SFF Committee objectives were broadened to encompass other areas which needed similar attention, such as pinouts for interface applications, and form factor issues on larger disk drives. SFF is a forum for resolving industry issues that are either not addressed by the standards process or need an immediate solution.

Documents created by the SFF Committee are expected to be submitted to bodies such as EIA (Electronic Industries Association) or an ASC (Accredited Standards Committee). They may be accepted for separate standards, or incorporated into other standards activities.

The principles of operation for the SFF Committee are not unlike those of an accredited standards committee. There are 3 levels of participation:

- Attending the meetings is open to all, but taking part in discussions is limited to member companies, or those invited by member companies
- The minutes and copies of material which are discussed during meetings are distributed only to those who sign up to receive documentation.
- The individuals who represent member companies of the SFF Committee receive documentation and vote on issues that arise. Votes are not taken during meetings, only guidance on directions. All voting is by letter ballot, which ensures all members an equal opportunity to be heard.

Material presented at SFF Committee meetings becomes public domain. There are no restrictions on the open mailing of material presented at committee meetings. In order to reduce disagreements and misunderstandings, copies must be provided for all agenda items that are discussed. Copies of the material presented, or revisions if completed in time, are included in the documentation mailings.

The sites for SFF Committee meetings rotate based on which member companies volunteer to host the meetings. Meetings have typically been held during the ASC T10 weeks.

The funds received from the annual membership fees are placed in escrow, and are used to reimburse ENDL for the services to manage the SFF Committee.

If you are not receiving the documentation of SFF Committee activities or are interested in becoming a member, the following signup information is reprinted here for your information.

Membership includes voting privileges on SFF Specs under development.

CD\_Access Electronic documentation contains:

- Minutes for the year-to-date plus all of last year
- Email traffic for the year-to-date plus all of last year
- The current revision of all the SFF Specifications, as well as any previous revisions distributed during the current year.

Meeting documentation contains:

- Minutes for the current meeting cycle.
- Copies of Specifications revised during the current meeting cycle.

Each electronic document mailing obsoletes the previous mailing of that year e.g. July replaces May. To build a complete set of archives of all SFF documentation, retain the last SFF CD\_Access mailing of each year.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Please register me with the SFF Committee for one year.

- |  |                 |
|--|-----------------|
| ___ Voting Membership w/Electronic documentation   | \$ 2,160        |
| ___ Voting Membership w/Meeting documentation      | \$ 1,800        |
| ___ Non-voting Observer w/Electronic documentation | \$ 660 U.S.     |
|  | \$ 760 Overseas |
| ___ Non-voting Observer w/Meeting documentation    | \$ 300 U.S.     |
|  | \$ 400 Overseas |

Check Payable to SFF Committee for \$\_\_\_\_\_ is Enclosed

Please invoice me for \$\_\_\_\_\_ on PO #: \_\_\_\_\_

MC/Visa/AmX\_\_\_\_\_ Expires\_\_\_\_\_

SFF Committee	408-867-6630
14426 Black Walnut Ct	408-867-2115Fx
Saratoga CA 95070	endlcom@acm.org

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.