



## STANDARDS NEW ACTIVITY REPORT FORM (SNARF)

Date Prepared: Nov 04, 2019 Revised (if Applicable): \_\_\_\_\_

**SNARF for:** New Standard: Specification for Location and Dimensions for Power Connectors and EtherCAT ports in Mass Flow Controllers and Mass Flow Meters

**Originating Global Technical Committee:** Gases

**Originating TC Chapter:** North America

**Task Force (TF) in which work is to be carried out:** Mass Flow Controller Task Force

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Refer to *Procedure Manual* § 2.2.4 for more information on properly filling out the SNARF.

### 1. Rationale:

#### a: Describe the need or problem addressed by this activity.

(Indicate the customer, what benefits they will receive, and if possible, quantify the impact on the return on investment [ROI] if the Document is implemented.)

EtherCAT Technology Group (ETG) has developed specification parameters for EtherCAT protocol for MFCs. These include Power Connectors and EtherCAT RJ45 ports. ETG and SEMI discussed that it would help to bring the dimensional and location specifications for these ports and standardize them into a new SEMI Standard for the benefit of Semiconductor Equipment Companies and End Users. This only refers to the dimensional and location aspects of EtherCAT MFCs. ETG will still maintain all other device parameters for EtherCAT MFCs. This has been discussed at the ETG working level and SEMI Standards Mass Flow TF and all agree that there is a definite benefit to the industry in doing so.

#### b: Estimate effect on industry. Check one of the following:

☒ 1: Major effect on entire industry or on multiple important industry sectors

- identify the relevant sectors: Semiconductor equipment, suppliers of components

☐ 2: Major effect on an industry sector

- identify the relevant sector: \_\_\_\_\_

☐ 3: Major effect on a few companies

- identify the relevant companies: \_\_\_\_\_

☐ 4: Slight effect or effect not determinable

#### c: Estimate technical difficulty of the activity. Check one of the following:

☒ I: No Difficulty – Proven concepts and techniques exist or quick agreement is anticipated

☐ II: Some Difficulty – Disagreements on known requirements exist, but developing consensus is possible

☐ III: Difficult – Limited expertise and resources exist and/or achieving consensus is difficult



☐ **IV: Extremely Difficult – Expertise and resources are scarce and/or achieving consensus is very difficult**

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## 2. Scope:

**a: Describe the technical areas to be covered or addressed by this Document development activity.**

*(For Subordinate Standards, list common concepts or criteria that the Subordinate Standard inherits from the Primary Standard, as well as differences from the Primary Standard.)*

This will be a primary standard. It will bring the dimensional and location specifications for these ports and standardized them into a new SEMI Standard. The standard will address where the Power Connector should be located on the MFC. Also, the Standard will address the physical location of RJ45 EtherCAT port locations on the top of the MFC.

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## **b: Expected result of activity**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> New Standard or Safety Guideline (including replacement of an existing Standard or Safety Guideline)                               | <input type="checkbox"/> Line-item revision to two or more existing Standards or Safety Guidelines                |
| <input type="checkbox"/> New Subordinate Standard to an existing Standard or to a new Primary Standard to be developed concurrently with this new Subordinate Standard | <input type="checkbox"/> Reapproval of a Standard or Safety Guideline   |
| <input type="checkbox"/> New Preliminary Standard  | <input type="checkbox"/> Removal of a Standard or Safety Guideline  |
| <input type="checkbox"/> Major revision to an existing Standard or Safety Guideline  | <input type="checkbox"/> Withdrawal of a Standard or Safety Guideline   |
| <input type="checkbox"/> Line-item revision to an existing Standard or Safety Guideline  | <input type="checkbox"/> Reinstatement of a Standard or Safety Guideline  |
|  | <input type="checkbox"/> Publication of an existing Standard or Safety Guideline as an American National Standard |
|  | <input type="checkbox"/> New Auxiliary Information  |
|  | <input type="checkbox"/> Modification of existing Auxiliary Information   |

**For a new Subordinate Standard, identify the Primary Standard here:** \_\_\_\_\_

For revision of existing Standard(s) or Safety Guideline(s), identify the Standard(s) or Safety Guideline(s) that are to be revised here: \_\_\_\_\_, and identify which parts of the Standard(s) or Safety Guideline(s) that are to be revised. (Check all that apply.)

- ☐ **Modification of an existing part of Standard(s) or Safety Guideline(s) including Appendices, Complementary Files, and Supplementary Materials**
- ☐ **Addition of one or more Appendices or Complementary Files to an existing Standard or Safety Guideline**
- ☐ **Addition of one or more Related Information sections or Various Materials to an existing Standard or Safety Guideline**
- ☐ **Revision or addition of one or more Subordinate Standards to an existing Primary Standard**

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**For Standards, identify the Standard Subtype below:**

- |  |   |
|--|---|
| <input type="checkbox"/> Classification                  | <input type="checkbox"/> Guide                    |
| <input type="checkbox"/> Practice                        | <input checked="" type="checkbox"/> Specification |
| <input type="checkbox"/> Test Method                     | <input type="checkbox"/> Terminology              |
| <input type="checkbox"/> Miscellaneous (describe:) _____ |   |

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**3. Projected Timetable for Completion:****a: General Milestones**

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|--|--|
| a. Activity Start: <u>December 01, 2019</u>      | b. 1 <sup>st</sup> Draft by: <u>January 15, 2020</u> |
| c. (Optional) Informational Ballot by: _____     | d. Letter Ballot by: <u>February 11, 2020</u>        |
| e. TC Chapter Approval By: <u>March 31, 2020</u> |  |

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**4. Liaisons with other Global Technical Committees/TC Chapters/Subcommittees/TFs:**

**a: List Global Technical Committees, TC Chapters, Subcommittees, or Task Forces in your or other Regions/Locales that should be kept informed regarding the progress of this activity.**

*(Refer to SEMI Standards organization charts and global technical committee charters as needed.)*

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**b: Intercommittee Ballots (check one):**

- ☐ will be issued – **identify the recipient global technical committee(s):** \_\_\_\_\_
- ☒ will not be issued

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**5. Safety Considerations:**

**The resulting Document is expected (Check one):**

- ☐ to be a Safety Guideline
- ☒ NOT to be a Safety Guideline

**NOTE FOR 'to be a Safety Guideline':** When all safety-related information is removed from the Document, the Document is NOT technically sound and complete – Refer to § 15.1 of the *Regulations* for special procedures to be followed.

**NOTE FOR 'NOT to be a Safety Guideline':** When all safety-related information is removed from the Document, the Document is still technically sound and complete.

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**6. Intellectual Property Considerations:**

**a: For a new Standard or Safety Guideline and for any part to be modified or added in a Revision of published Standards and Safety Guidelines (Check one):**

☒ the use of patented technology is NOT required.

☐ patented technology is intended to be included in the proposed Standard(s) or Safety Guideline(s).

**(If the second box is checked, check one):**

- ☐ Letter of Intent received
- ☐ Letter of Intent not received



**b: For Revision, Reapproval, Reinstatement, or Withdrawal of existing Standard(s) and Safety Guideline(s) (Check one):**

- ☒ there is no known material patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)
- ☐ there is previously known material patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)

**c: The body of the Document and any Appendices, Complementary Files, Related Information sections, or Various Materials that may or may not be a part of the Document by reference (Check one):**

- ☐ will incorporate Copyrighted Item
- ☒ the incorporation of Copyrighted Item will NOT be required

**NOTE FOR 'the use of patented technology or the incorporation of Copyrighted Item(s) is NOT required':** If in the course of developing the Document, it is determined that the use of patented technology or Copyrighted Item(s) is necessary for the Document, the provisions of *Regulations* § 16 must be followed.

**NOTE FOR 'will incorporate Copyrighted Item':** A copyright release letter must be obtained from the copyright owner prior to publication.

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**7. Comments, Special Circumstances:**

**8. TC Member Review (Check one):**

- ☐ took place between (put dates here: MM/DD/YYYY and MM/DD/YYYY ) before approval at the TC Chapter Meeting, or
- ☐ took place between (put dates here: MM/DD/YYYY and MM/DD/YYYY ) before approval by the GCS, or
- ☐ is not required for this SNARF.

**NOTE FOR 'TC Member Review':** A TC Member Review is required by the *Regulations* for a period of at least two weeks before approval of a new, or a major revision of an existing, Standard or Safety Guideline. (See *Regulations* ¶ 8.2.1)

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**9. Approval Dates:**

TC Chapter or GCS: \_\_\_\_\_

Recorded in TC Chapter Minutes: \_\_\_\_\_

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If you do not have email capability, you may fax this form to the nearest SEMI office:

SEMI HQ: 1.408.428.9600

China: 86.21.6027.8511

Europe: 49.30.8187.8879

Japan: 81.3.3222.5757

Korea: 82.2.551.3406

Taiwan: 886.3.560.1555